



MSD

October 14, 1998

Ms. Liza I. Montalvo
Remedial Project Manager
U. S. Environmental Protection Agency
Kentucky/Tennessee Section
Region IV
61 Forsyth Street
Atlanta, GA 30303

**Re Results of Groundwater Quality Monitoring - FY 00, Annual,
Lees Lane Superfund Site, Jefferson County, Kentucky,
Administrative Order on Consent, USEPA, Docket No. 91-32-C**

Dear Ms. Montalvo:

In accordance with paragraph 11, under Reporting Requirement, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan for Post-Removal Site Control at the Lee's Lane Landfill Site, Section 4.4, Groundwater Quality Monitoring, attached for your information files is one photocopy each of the following analyses and reports prepared by Heritage Laboratories, Inc., 4925 Heller Street, Louisville, Kentucky 40218 for MSD.

Certificate of Analysis

<u>WELL LOCATION</u>	<u>SAMPLE DESCRIPTION</u>	<u>LAB. ID</u>	<u>REPORT LENGTH</u>
MW-02	LL-MW0225	A495443	8 pages
MW-04	LL-MW0425	A495441	8 pages
MW-04 DUP	LL-MW0525 DUP	A495444	8 pages
MW-05	LL-MW0525	A495442	8 pages
MW-B	LL-MWB25	A495445	8 pages
Field Blank	LLMW0425FB	A495440	8 pages



10847358

U.S. EPA REGION IV

SDMS

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**** PLEASE CONTACT THE APPROPRIATE RECORDS CENTER TO VIEW THE MATERIAL****

Ms. Lisa Montalvo
October 14, 1999
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Quality Assurance Reports

<u>DESCRIPTION</u>	<u>REPORT LENGTH</u>
Quality Assurance Report	44 pages
Chain of Custody	1 page

The above identified Certificates of Analysis and Quality Assurance Reports were received by the undersigned on October 11, 1999 and are transmitted within the five (5) working day requirement of Paragraph 11 of the Consent Order.

The Chain of Custody indicates that samples were not taken from WMW-A. The lock and the dedicated pump head were missing. If additional information is needed regarding this incident, please contact Evelyn Clark, Sampling Supervisor in the Industrial Control and Monitoring Division at (502) 540-6916.

Sincerely,



C. A. Neumann
Director of Operations

CAN/dc
LeesgrouFY00-Annual
Enclosures

cc: Kentucky Natural Resource Environment Protection Cabinet
Mr. Rick Hogan, Division of Waste Management
Kentucky Natural Resource Environment Protection Cabinet
Mr. Jeff Pratt, Division of Waste Management
G. R. Garner, Executive Director, MSD
File WD-2 (Lee's Lane M&M)

bc: D. R. Sammons
P. Fitzgerald

C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 16-SEP-99	Project	Lab ID A495443
	Complete 29-SEP-99	PO Number DP 00151	
	Printed 29-SEP-99	Sampled 16-SEP-99 14:04	

Report To DAN SAMMONS, MFWTP IND. WASTE LABORATORY LOUISVILLE AND JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201	Bill To MS. KAREN SHORTE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201
Sample Description CLIENT ID: LLMW0225	

VOLATILE ORGANICS SW846-8240B			
Analyst: R. SHAMP		Analysis Date: 21-SEP-99 10:53	Instrument: GC/MS VOA
		Test: 0510.3.0	
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5.0	ug/L
BROMODICHLOROMETHANE	BDL	5.0	ug/L
BROMOFORM	BDL	5.0	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
ETHYLBENZENE	BDL	5.0	ug/L
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5.0	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L

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Parameter	Result	Det. Limit	Units
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
SURROGATE RECOVERY			
DICHLOROETHANE-D4	122		% Rec
TOLUENE-D8	100		% Rec
BROMOFLUOROBENZENE	106		% Rec
1:5 DILUTION			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: P. SIMS

Analysis Date: 23-SEP-99

Instrument: PREP

Test: P233.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C

Analyst: L. DOBBINS

Analysis Date: 24-SEP-99 18:21

Instrument: GC/MS SYOA

Test: 0505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P233.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYL BUTYL PHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	10	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L

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1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	32		% Rec

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Parameter	Result	Det. Limit	Units
PHENOL-D5	25		% Rec
NITROBENZENE-D5	78		% Rec
2-FLUOROBIPHENYL	72		% Rec
2,4,6-TRIBROMOPHENOL	57		% Rec
TERPHENYL-D14	35		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: J. OELSLAGER

Analysis Date: 20-SEP-99

Instrument: PREP

Test: P233.1.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081

Analyst: L. JONES

Analysis Date: 25-SEP-99 12:00

Instrument: GC/ECD

Test: 0305.1.0

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P233.1.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	1	ug/L
PCB AROCLOR 1260	BDL	1	ug/L
SURROGATE RECOVERY			
DECACHLOROBIPHENYL (DCB)	63.6		% Rec

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FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: D. BUSCO

Analysis Date: 17-SEP-99 10:00

Instrument: PREP

Test: P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M101.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ALUMINUM	BDL	0.050	mg/L

ANTIMONY ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M102.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ANTIMONY	BDL	0.030	mg/L

BARIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
BARIUM	0.16	0.010	mg/L

BERYLLIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M105.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M108.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
CALCIUM	96.	0.20	mg/L

CHROMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M110.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units

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Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS CHROMIUM	BDL	0.010	mg/L

COBALT ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M111.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS COBALT	BDL	0.010	mg/L

COPPER ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M112.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M115.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS IRON	3.7	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M118.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS MAGNESIUM	31.	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS MANGANESE	0.18	0.010	mg/L

NICKEL ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS NICKEL	BDL	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M126.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units

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Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
POTASSIUM	1.6	0.20	mg/L

SILVER ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M130.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
SILVER	BDL	0.010	mg/L

SODIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M131.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
SODIUM	10.	0.20	mg/L

VANADIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M138.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:14

Instrument: ICP

Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:43

Instrument: TRACE ICP

Test: M103.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ARSENIC	BDL	0.0050	mg/L

LEAD TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:43

Instrument: TRACE ICP

Test: M116.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
LEAD	BDL	0.0050	mg/L

SELENIUM TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:43

Instrument: TRACE ICP

Test: M128.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units

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Parameter	Result	Det. Limit	Units
WET-WEIGHT RESULTS			
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:43

Instrument: TRACE ICP

Test: M134.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

Analyst: K. KAMARA

Analysis Date: 20-SEP-99 17:00

Instrument: PREP

Test: P131.6.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470A

Analyst: R. DALAL

Analysis Date: 21-SEP-99 12:56

Instrument: CVAA

Test: M120.1.0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
MERCURY	BDL	0.00020	mg/L

CYANIDE DISTILLATION SW846-9010A

Analyst: P. HANLIN

Analysis Date: 19-SEP-99 16:30

Instrument: PREP

Test: P101.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: P. HANLIN

Analysis Date: 19-SEP-99 18:45

Instrument: AUTO-ANALYZER

Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
CYANIDE	BDL	0.005	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice.

Sample chain of custody number 87492.

This Certificate shall not be reproduced, except in full,
without the written approval of the lab.

Approved :

P.K. fence

Page 8 (last page)

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	16-SEP-99		A495441
	Complete	PO Number	
	29-SEP-99	DP 00151	
	Printed	Sampled	
	29-SEP-99	16-SEP-99 09:45	

Report To	Bill To
DAN SAMMONS, MFWTP IND. WASTE LABORATORY LOUISVILLE AND JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201	MS. KAREN SHORTE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201

Sample Description
CLIENT ID: LLMW0425

VOLATILE ORGANICS SW846-8240B			
Analyst: R. SHAMP	Analysis Date: 21-SEP-99 09:44	Instrument: GC/MS VOA	Test: 0510.3.0
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5.0	ug/L
BROMODICHLOROMETHANE	BDL	5.0	ug/L
BROMOFORM	BDL	5.0	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
ETHYLBENZENE	BDL	5.0	ug/L
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5.0	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L

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Parameter	Result	Det. Limit	Units
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
SURROGATE RECOVERY			
DICHLOROETHANE-D4	124		% Rec
TOLUENE-D8	98		% Rec
BROMOFLUOROBENZENE	87		% Rec
1:5 DILUTION			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: P. SIMS

Analysis Date: 23-SEP-99

Instrument: PREP

Test: P233.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C

Analyst: L. DOBBINS

Analysis Date: 24-SEP-99 16:51

Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P233.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYL BUTYL PHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L

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1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	33		% Rec

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Parameter	Result	Det. Limit	Units
PHENOL-D5	25		% Rec
NITROBENZENE-D5	77		% Rec
2-FLUOROBIPHENYL	76		% Rec
2,4,6-TRIBROMOPHENOL	88		% Rec
TERPHENYL-D14	47		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: J. OELSLAGER

Analysis Date: 20-SEP-99

Instrument: PREP

Test: P233.1.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081

Analyst: L. JONES

Analysis Date: 25-SEP-99 11:26

Instrument: GC/ECD

Test: 0305.1.0

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P233.1.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	1	ug/L
PCB AROCLOR 1260	BDL	1	ug/L
SURROGATE RECOVERY			
DECACHLOROBIPHENYL (DCB)	43.4		% Rec

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FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: D. BUSCO

Analysis Date: 17-SEP-99 10:00

Instrument: PREP

Test: P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M101.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ALUMINUM	0.078	0.050	mg/L

ANTIMONY ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M102.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ANTIMONY	BDL	0.030	mg/L

BARIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
BARIUM	0.13	0.010	mg/L

BERYLLIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M105.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M108.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
CALCIUM	130	0.20	mg/L

CHROMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M110.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units

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Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS CHROMIUM	BDL	0.010	mg/L

COBALT ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M111.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS COBALT	BDL	0.010	mg/L

COPPER ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M112.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M115.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS IRON	6.4	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M118.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS MAGNESIUM	42.	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS MANGANESE	0.15	0.010	mg/L

NICKEL ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS NICKEL	BDL	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M126.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units

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Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
POTASSIUM	3.1	0.20	mg/L

SILVER ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M130.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
SILVER	BDL	0.010	mg/L

SODIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M131.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
SODIUM	30.	0.20	mg/L

VANADIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M138.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:09

Instrument: ICP

Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ZINC	0.022	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:35

Instrument: TRACE ICP

Test: M103.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ARSENIC	0.013	0.0050	mg/L

LEAD TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:35

Instrument: TRACE ICP

Test: M116.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
LEAD	0.014	0.0050	mg/L

SELENIUM TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:35

Instrument: TRACE ICP

Test: M128.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units

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Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:35

Instrument: TRACE ICP

Test: M134.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

Analyst: K. KAMARA

Analysis Date: 20-SEP-99 17:00

Instrument: PREP

Test: P131.6.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	100		ml
FINAL VOLUME	100		ml

MERCURY CVAA SW846-7470A

Analyst: R. DALAL

Analysis Date: 21-SEP-99 12:56

Instrument: CVAA

Test: M120.1.0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
MERCURY	BDL	0.00020	mg/L

CYANIDE DISTILLATION SW846-9010A

Analyst: P. HANLIN

Analysis Date: 19-SEP-99 16:30

Instrument: PREP

Test: P101.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	250		ml
FINAL VOLUME	250		ml

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: P. HANLIN

Analysis Date: 19-SEP-99 18:45

Instrument: AUTO-ANALYZER

Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
CYANIDE	BDL	0.005	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice.

Sample chain of custody number 87492.

This Certificate shall not be reproduced, except in full,
without the written approval of the lab.

Approved : P.K. France

Page 8 (last page)

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 16-SEP-99	Project	Lab ID A495444
	Complete 04-OCT-99	PO Number DP 00151	
	Printed 05-OCT-99	Sampled 16-SEP-99 09:55	

Report To DAN SAMMONS, MFWTP IND. WASTE LABORATORY LOUISVILLE AND JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201	Bill To MS. KAREN SHORTE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201
CLIENT ID: LLMWDUP25	

VOLATILE ORGANICS SW846-8240B			
Analyst: R. SHAMP	Analysis Date: 21-SEP-99 11:27	Instrument: GC/MS VOA	Test: 0510.3.0
Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5.0	ug/L
BROMODICHLOROMETHANE	BDL	5.0	ug/L
BROMOFORM	BDL	5.0	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
ETHYLBENZENE	BDL	5.0	ug/L
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5.0	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L

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Parameter	Result	Det. Limit	Units
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	125		% Rec
TOLUENE-D8	101		% Rec
BROMOFLUOROBENZENE	105		% Rec
1:5 DILUTION			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: A. GERKE

Analysis Date: 23-SEP-99

Instrument: PREP

Test: P233.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

Failed surrogate recovery criteria. Was re-extracted.

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: A. GERKE

Analysis Date: 30-SEP-99

Instrument: PREP

Test: P233.4.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C

Analyst: L. DOBBINS

Analysis Date: 01-OCT-99 17:00

Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P233.4.1

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYL BUTYL PHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L

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4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L

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HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A495444 LLMWD

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL			
PHENOL-D5	55		% Rec
NITROBENZENE-D5	35		% Rec
2-FLUOROBIPHENYL	91		% Rec
2,4,6-TRIBROMOPHENOL	89		% Rec
TERPHENYL-D14	79		% Rec
	96		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: J. OELSLAGER

Analysis Date: 20-SEP-99

Instrument: PREP

Test: P233.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081

Analyst: L. JONES

Analysis Date: 25-SEP-99 12:34

Instrument: GC/ECD

Test: 0305.1.0

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P233.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.05	ug/L
4,4'-DDE	BDL	0.05	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.1	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.5	ug/L
ALPHA-CHLORDANE	BDL	0.1	ug/L
GAMMA-CHLORDANE	BDL	0.1	ug/L
TOXAPHENE	BDL	0.5	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	1	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	0.5	ug/L
PCB AROCLOR 1260	BDL	0.5	ug/L
...	BDL	1	ug/L
SURROGATE RECOVERY		1	ug/L
DECACHLOROBIPHENYL (DCB)	37.3		% Rec

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FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: D. BUSCO

Analysis Date: 17-SEP-99 10:00

Instrument: PREP

Test: P130.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M101.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ALUMINUM	BDL	0.050	mg/L

ANTIMONY ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M102.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ANTIMONY	BDL	0.030	mg/L

BARIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BARIUM	0.12	0.010	mg/L

BERYLLIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M105.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M108.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	120	0.20	mg/L

CHROMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M110.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COBALT ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M111.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COBALT			

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Parameter	Result	Det. Limit	Units
COBALT	BDL	0.010	mg/L

COPPER ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M112.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M115.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
IRON	6.1	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M118.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	41.	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.14	0.010	mg/L

NICKEL ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M126.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
POTASSIUM	2.1	0.20	mg/L

SILVER ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M130.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	0.010	mg/L

SODIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M131.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SODIUM	29.	0.20	mg/L

VANADIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M138.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

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Parameter	Result	Det. Limit	Units
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:17

Instrument: ICP

Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:54

Instrument: TRACE ICP

Test: M103.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ARSENIC	0.010	0.0050	mg/L

LEAD TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:54

Instrument: TRACE ICP

Test: M116.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

SELENIUM TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:54

Instrument: TRACE ICP

Test: M128.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:54

Instrument: TRACE ICP

Test: M134.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

Analyst: K. KAMARA

Analysis Date: 20-SEP-99 17:00

Instrument: PREP

Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470A

Analyst: R. DALAL

Analysis Date: 21-SEP-99 12:56

Instrument: CVAA

Test: M120.1.0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

CYANIDE DISTILLATION SW846-9010A

Analyst: P. HANLIN

Analysis Date: 19-SEP-99 16:30

Instrument: PREP

Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: P. HANLIN

Analysis Date: 19-SEP-99 18:45

Instrument: AUTO-ANALYZER

Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0

Parameter	Result	Det. Limit	Units
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Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

BDL Below Detection Limit

Sample was received on ice.
Sample chain of custody number 87492.

**This Certificate shall not be reproduced, except in full,
without the written approval of the lab.**

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 16-SEP-99	Project	Lab ID A495442
	Complete 29-SEP-99	PO Number DP 00151	
	Printed 29-SEP-99	Sampled 16-SEP-99 11:55	

Report To DAN SAMMONS, MFWTP IND. WASTE LABORATORY LOUISVILLE AND JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201	Bill To MS. KAREN SHORTE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201
Sample Description CLIENT ID: LLMW0525	

VOLATILE ORGANICS SW846-8240B Analyst: R. SHAMP Analysis Date: 21-SEP-99 10:18 Instrument: GC/MS VOA Test: 0510.3.0			
Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5.0	ug/L
BROMODICHLOROMETHANE	BDL	5.0	ug/L
BROMOFORM	BDL	5.0	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
ETHYLBENZENE	BDL	5.0	ug/L
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5.0	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L

**LABORATORY SERVICES
TERMS & CONDITIONS**

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Parameter	Result	Det. Limit	Units
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
SURROGATE RECOVERY			
DICHLOROETHANE-D4	121		% Rec
TOLUENE-D8	97		% Rec
BROMOFLUOROBENZENE	96		% Rec
1:5 DILUTION			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: P. SIMS

Analysis Date: 23-SEP-99

Instrument: PREP

Test: P233.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C

Analyst: L. DOBBINS

Analysis Date: 24-SEP-99 17:36

Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P233.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYL BUTYL PHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L

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1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	41		% Rec

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Parameter	Result	Det. Limit	Units
PHENOL-D5	29		% Rec
NITROBENZENE-D5	82		% Rec
2-FLUOROBIPHENYL	73		% Rec
2,4,6-TRIBROMOPHENOL	71		% Rec
TERPHENYL-D14	22		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: J. OELSLAGER

Analysis Date: 20-SEP-99

Instrument: PREP

Test: P233.1.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081

Analyst: L. JONES

Analysis Date: 25-SEP-99 07:59

Instrument: GC/ECD

Test: 0305.1.0

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P233.1.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	1	ug/L
PCB AROCLOR 1260	BDL	1	ug/L
SURROGATE RECOVERY			
DECACHLOROBIPHENYL (DCB)	56.4		% Rec

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FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: D. BUSCO

Analysis Date: 17-SEP-99 10:00

Instrument: PREP

Test: P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M101.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ALUMINUM	0.078	0.050	mg/L

ANTIMONY ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M102.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ANTIMONY	BDL	0.030	mg/L

BARIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
BARIUM	1.7	0.010	mg/L

BERYLLIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M105.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M108.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
CALCIUM	90.	0.20	mg/L

CHROMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M110.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units

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Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS CHROMIUM	BDL	0.010	mg/L

COBALT ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M111.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS COBALT	0.010	0.010	mg/L

COPPER ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M112.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M115.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS IRON	9.5	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M118.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS MAGNESIUM	34.	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS MANGANESE	0.68	0.010	mg/L

NICKEL ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 21-SEP-99 11:25

Instrument: ICP

Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS NICKEL	0.012	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M126.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units

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Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
POTASSIUM	28.	0.20	mg/L

SILVER ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M130.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
SILVER	BDL	0.010	mg/L

SODIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M131.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
SODIUM	39.	0.20	mg/L

VANADIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M138.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:11

Instrument: ICP

Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:39

Instrument: TRACE ICP

Test: M103.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ARSENIC	0.020	0.0050	mg/L

LEAD TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:39

Instrument: TRACE ICP

Test: M116.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
LEAD	BDL	0.0050	mg/L

SELENIUM TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:39

Instrument: TRACE ICP

Test: M128.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units

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Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:39

Instrument: TRACE ICP

Test: M134.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

Analyst: K. KAMARA

Analysis Date: 20-SEP-99 17:00

Instrument: PREP

Test: P131.6.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470A

Analyst: R. DALAL

Analysis Date: 21-SEP-99 12:56

Instrument: CVAA

Test: M120.1.0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
MERCURY	BDL	0.00020	mg/L

CYANIDE DISTILLATION SW846-9010A

Analyst: P. HANLIN

Analysis Date: 19-SEP-99 16:30

Instrument: PREP

Test: P101.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: P. HANLIN

Analysis Date: 19-SEP-99 18:45

Instrument: AUTO-ANALYZER

Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
CYANIDE	BDL	0.005	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice.

Sample chain of custody number 87492.

This Certificate shall not be reproduced, except in full,
without the written approval of the lab.Approved : P.K. France

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 16-SEP-99	Project	Lab ID A495445
	Complete 04-OCT-99	PO Number DP 00151	
	Printed 05-OCT-99	Sampled 16-SEP-99 15:15	

Report To	Bill To
DAN SAMMONS, MFWTP IND. WASTE LABORATORY LOUISVILLE AND JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201	MS. KAREN SHORTE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201
Sample Description	
CLIENT ID: LLMWB25	

VOLATILE ORGANICS SW846-8240B			
Analyst: R. SHAMP		Analysis Date: 21-SEP-99 12:01	Instrument: GC/MS VOA
		Test: 0510.3.0	
Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5.0	ug/L
BROMODICHLOROMETHANE	BDL	5.0	ug/L
BROMOFORM	BDL	5.0	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
ETHYLBENZENE	BDL	5.0	ug/L
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5.0	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L

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Parameter	Result	Det. Limit	Units
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
...			
SURROGATE RECOVERY			
DICHLOROETHANE-D4	129		% Rec
TOLUENE-D8	105		% Rec
BROMOFLUOROBENZENE	87		% Rec
1:5 DILUTION			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: A. GERKE

Analysis Date: 23-SEP-99

Instrument: PREP

Test: P233.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

Failed surrogate recovery criteria. Was re-extracted.

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: A. GERKE

Analysis Date: 30-SEP-99

Instrument: PREP

Test: P233.4.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C

Analyst: L. DOBBINS

Analysis Date: 01-OCT-99 17:50

Instrument: GC/MS SVQA

Test: 0505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P233.4.1

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYL BUTYL PHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L

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4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L

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Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	52		% Rec
PHENOL-D5	35		% Rec
NITROBENZENE-D5	88		% Rec
2-FLUOROBIPHENYL	83		% Rec
2,4,6-TRIBROMOPHENOL	75		% Rec
TERPHENYL-D14	93		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: J. OELSLAGER

Analysis Date: 20-SEP-99

Instrument: PREP

Test: P233.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081

Analyst: L. JONES

Analysis Date: 25-SEP-99 01:09

Instrument: GC/ECD

Test: 0305.1.0

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P233.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	1	ug/L
PCB AROCLOR 1260	BDL	1	ug/L
...			
SURROGATE RECOVERY			
DECACHLOROBIPHENYL (DCB)	57.14		% Rec

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FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: D. BUSCO

Analysis Date: 21-SEP-99 11:00

Instrument: PREP

Test: P130.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M101.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ALUMINUM	0.22	0.050	mg/L

ANTIMONY ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M102.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ANTIMONY	BDL	0.030	mg/L

BARIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BARIUM	0.019	0.010	mg/L

BERYLLIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M105.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M108.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	110	0.20	mg/L

CHROMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M110.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CHROMIUM	0.031	0.010	mg/L

COBALT ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M111.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COBALT			

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Parameter	Result	Det. Limit	Units
COBALT	BDL	0.010	mg/L

COPPER ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M112.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M115.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
IRON	7.7	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M118.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	38.	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.28	0.010	mg/L

NICKEL ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
NICKEL	0.015	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M126.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
POTASSIUM	2.2	0.20	mg/L

SILVER ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M130.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	0.010	mg/L

SODIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M131.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SODIUM	36.	0.20	mg/L

VANADIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 22-SEP-99 04:13

Instrument: ICP

Test: M138.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

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Parameter	Result	Det. Limit	Units
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B

Analyst: J. KRAMER Analysis Date: 22-SEP-99 04:13 Instrument: ICP Test: M139.3.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B

Analyst: G. MAPP Analysis Date: 22-SEP-99 12:00 Instrument: TRACE ICP Test: M103.0.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ARSENIC	0.0057	0.0050	mg/L

LEAD TRACE ICP SW846-6010B

Analyst: G. MAPP Analysis Date: 22-SEP-99 12:00 Instrument: TRACE ICP Test: M116.0.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

SELENIUM TRACE ICP SW846-6010B

Analyst: G. MAPP Analysis Date: 23-SEP-99 13:00 Instrument: TRACE ICP Test: M128.0.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B

Analyst: G. MAPP Analysis Date: 22-SEP-99 12:00 Instrument: TRACE ICP Test: M134.0.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

Analyst: K. KAMARA Analysis Date: 20-SEP-99 17:00 Instrument: PREP Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470A

Analyst: R. DALAL Analysis Date: 21-SEP-99 12:56 Instrument: CVAA Test: M120.1.0
 Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

CYANIDE DISTILLATION SW846-9010A

Analyst: P. HANLIN Analysis Date: 19-SEP-99 16:30 Instrument: PREP Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: P. HANLIN Analysis Date: 19-SEP-99 18:45 Instrument: AUTO-ANALYZER Test: G101.4.0
 Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0

Parameter	Result	Det. Limit	Units
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Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

Sample Comments

BDL Below Detection Limit

*Sample was received on ice.
Sample chain of custody number 87492.*

*This Certificate shall not be reproduced, except in full,
without the written approval of the lab.*

Approved :



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CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 16-SEP-99	Project	Lab ID A495440
	Complete 29-SEP-99	PO Number DP 00151	
	Printed 29-SEP-99	Sampled 16-SEP-99 11:50	

Report To DAN SAMMONS, MFWTP IND. WASTE LABORATORY LOUISVILLE AND JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201	Bill To MS. KAREN SHORTE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201
CLIENT ID: LLMWFB25	

VOLATILE ORGANICS SW846-8240B				
Analyst: R. SHAMP		Analysis Date: 21-SEP-99 09:10		Instrument: GC/MS VOA
				Test: 0510.3.0
Parameter	Result	Det. Limit	Units	
WET WEIGHT RESULTS				
ACETONE	BDL	20	ug/L	
ACROLEIN	BDL	50	ug/L	
ACRYLONITRILE	BDL	20	ug/L	
BENZENE	BDL	5.0	ug/L	
BROMODICHLOROMETHANE	BDL	5.0	ug/L	
BROMOFORM	BDL	5.0	ug/L	
BROMOMETHANE	BDL	10	ug/L	
CARBON DISULFIDE	BDL	5.0	ug/L	
CARBON TETRACHLORIDE	BDL	5.0	ug/L	
CHLOROBENZENE	BDL	5.0	ug/L	
CHLOROETHANE	BDL	10	ug/L	
CHLOROFORM	BDL	5.0	ug/L	
CHLOROMETHANE	BDL	10	ug/L	
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L	
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L	
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L	
1,1-DICHLOROETHANE	BDL	5.0	ug/L	
1,2-DICHLOROETHANE	BDL	5.0	ug/L	
1,1-DICHLOROETHENE	BDL	5.0	ug/L	
1,2-DICHLOROPROPANE	BDL	5.0	ug/L	
ETHYLBENZENE	BDL	5.0	ug/L	
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L	
2-HEXANONE	BDL	10	ug/L	
METHYLENE CHLORIDE	BDL	5.0	ug/L	
METHYL ETHYL KETONE	BDL	10	ug/L	
4-METHYL-2-PENTANONE	BDL	10	ug/L	
STYRENE	BDL	5.0	ug/L	
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L	
TETRACHLOROETHENE	BDL	5.0	ug/L	
TETRAHYDROFURAN	BDL	25	ug/L	

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Parameter	Result	Det. Limit	Units
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
SURROGATE RECOVERY			
DICHLOROETHANE-D4	126		% Rec
TOLUENE-D8	98		% Rec
BROMOFLUOROBENZENE	107		% Rec
1:5 DILUTION			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: P. SIMS

Analysis Date: 23-SEP-99

Instrument: PREP

Test: P233.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	1000		ml
FINAL VOLUME	1.0		ml

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C

Analyst: L. DOBBINS

Analysis Date: 24-SEP-99 16:05

Instrument: GC/MS SVOA

Test: 0505.1.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P233.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYL BUTYL PHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L

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1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	33		% Rec

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Parameter	Result	Det. Limit	Units
PHENOL-D5	27		% Rec
NITROBENZENE-D5	79		% Rec
2-FLUOROBIPHENYL	82		% Rec
2,4,6-TRIBROMOPHENOL	78		% Rec
TERPHENYL-D14	59		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Analyst: J. OELSLAGER

Analysis Date: 20-SEP-99

Instrument: PREP

Test: P233.1.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081

Analyst: L. JONES

Analysis Date: 25-SEP-99 10:51

Instrument: GC/ECD

Test: P233.1.0

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B P233.1.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	1	ug/L
PCB AROCLOR 1260	BDL	1	ug/L
SURROGATE RECOVERY			
DECACHLOROBIPHENYL (DCB)	45.2		% Rec

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FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: D. BUSCO

Analysis Date: 17-SEP-99 10:00

Instrument: PREP

Test: P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: M101.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ALUMINUM	BDL	0.050	mg/L

ANTIMONY ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: M102.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
ANTIMONY	BDL	0.030	mg/L

BARIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
BARIUM	BDL	0.010	mg/L

BERYLLIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: M105.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: M108.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
CALCIUM	0.37	0.20	mg/L

CHROMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: M110.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units

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Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
CHROMIUM	BDL	0.010	mg/L

COBALT ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: N111.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
COBALT	BDL	0.010	mg/L

COPPER ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: N112.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: N115.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
IRON	BDL	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: N118.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
MAGNESIUM	BDL	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: N119.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
MANGANESE	BDL	0.010	mg/L

NICKEL ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: N122.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
NICKEL	BDL	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: N126.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units

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Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS POTASSIUM	BDL	0.20	mg/L

SILVER ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: M130.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS SILVER	BDL	0.010	mg/L

SODIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: M131.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS SODIUM	BDL	0.20	mg/L

VANADIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: M138.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 18-SEP-99 02:06

Instrument: ICP

Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:32

Instrument: TRACE ICP

Test: M103.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS ARSENIC	BDL	0.0050	mg/L

LEAD TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:32

Instrument: TRACE ICP

Test: M116.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS LEAD	BDL	0.0050	mg/L

SELENIUM TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:32

Instrument: TRACE ICP

Test: M128.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units

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Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B

Analyst: G. MAPP

Analysis Date: 20-SEP-99 11:32

Instrument: TRACE ICP

Test: M134.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
THALLIUM	0.011	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

Analyst: K. KAMARA

Analysis Date: 20-SEP-99 17:00

Instrument: PREP

Test: P131.6.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470A

Analyst: R. DALAL

Analysis Date: 21-SEP-99 12:56

Instrument: CVAA

Test: M120.1.0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
MERCURY	BDL	0.00020	mg/L

CYANIDE DISTILLATION SW846-9010A

Analyst: P. HANLIN

Analysis Date: 19-SEP-99 16:30

Instrument: PREP

Test: P101.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: P. HANLIN

Analysis Date: 19-SEP-99 18:45

Instrument: AUTO-ANALYZER

Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0

Parameter	Result	Det. Limit	Units
WET WEIGHT RESULTS			
CYANIDE	BDL	0.005	mg/L

Sample Comments

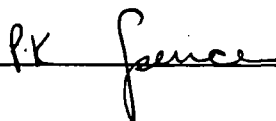
BDL Below Detection Limit

Sample was received on ice.

Sample chain of custody number 87492.

This Certificate shall not be reproduced, except in full,
without the written approval of the lab.

Approved :



Page 8 (last page)

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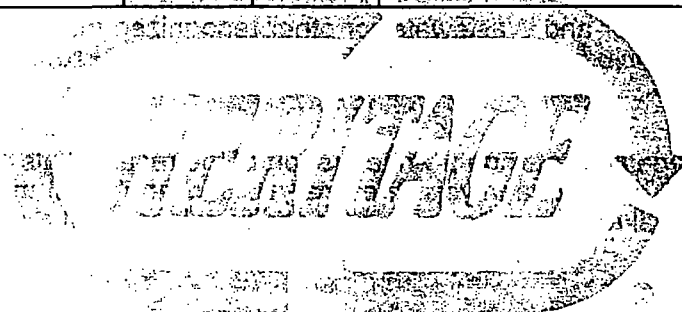
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QUALITY ASSURANCE REPORT

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Report Date 05-OCT-99
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Submitter LOUISVILLE AND JEFFERSON COUNTY M.S.D. KEN CONNER - MSD URBAN AREAS 400 SOUTH SIXTH STREET (40202-2397) P.O. BOX 740011 LOUISVILLE, KY 40201	
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Client ID	Lab ID	Date-Time Sampled	Date Received	Date Complete	Description
LLMWF825	A495440	16-SEP-99 11:50	16-SEP-99	29-SEP-99	
LLMW0425	A495441	16-SEP-99 09:45	16-SEP-99	29-SEP-99	
LLMW0525	A495442	16-SEP-99 11:55	16-SEP-99	29-SEP-99	
LLMW0225	A495443	16-SEP-99 14:04	16-SEP-99	29-SEP-99	
LLMW0UP25	A495444	16-SEP-99 09:55	16-SEP-99	04-OCT-99	
LLMWB25	A495445	16-SEP-99 15:15	16-SEP-99	04-OCT-99	



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HERITAGE ENVIRONMENTAL SERVICES, LLC

CYANIDE, TOTAL (AUTOMATED) SW846-9012

G101.4

Prep: CYANIDE DISTILLATION SW846-9010A

Run: R378513
PREPAnalyst.: P HANLIN
Reviewer: K FULLMERRun Date....: 19-SEP-99
Review Date: 20-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q102019		R378514
LFB02L	Q102019		R378514
LFB02H	Q102019		R378514
SAMPLE	A495440	Rep: 0	R378514
SPI02	Q102019	A495440	R378514
DPS02	Q102019	A495440	R378514
SAMPLE	A495441	Rep: 0	R378514
SAMPLE	A495442	Rep: 0	R378514
SAMPLE	A495443	Rep: 0	R378514
SAMPLE	A495444	Rep: 0	R378514
SAMPLE	A495445	Rep: 0	R378514

Run: R378514
ANALYTICALAnalyst.: P HANLIN
Reviewer: K FULLMERRun Date....: 19-SEP-99
Review Date: 20-SEP-99

Instrument: AUTO-ANALYZER

QC Type	Lab ID	Source	Parameter	True/Samp	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q102019		CYANIDE			0.0005	mg/L		
CDL01	Q102019		CYANIDE	0.02		0.02	mg/L	100	
ICV01	Q102019		CYANIDE	0.15		0.153	mg/L	102	
BLA02	Q102019		CYANIDE			0.0005	mg/L		
LFB02L	Q102019		CYANIDE	0.05		0.0505	mg/L	101	
LFB02H	Q102019		CYANIDE	0.25		0.247	mg/L	98.8	
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SPI02	Q102019	A495440	CYANIDE	0.095	0.1	0.095	mg/L	95	
DPS02	Q102019	A495440	CYANIDE	0	0.1	0.096	mg/L	96	1
CCV	Q102019		CYANIDE	0.1		0.101	mg/L	101	
BLA01	Q102020		CYANIDE			0	mg/L		
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102020		CYANIDE	0.1		0.098	mg/L	98	
BLA01	Q102020		CYANIDE			0.0009	mg/L		

ALUMINUM ICP SW846-6010B

M101.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401
PREPAnalyst.: D BUSCO
Reviewer: W WATNESSRun Date....: 17-SEP-99
Review Date: 20-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q101988	NA	R378485
ECS	Q101989	SPEX	R378485
SPI02	Q101989	A495325	R378485
DPS02	Q101989	A495325	R378485
SAMPLE	A495440	Rep: 0	R378485
SAMPLE	A495441	Rep: 0	R378485
SAMPLE	A495442	Rep: 0	R378485
SAMPLE	A495443	Rep: 0	R378485
SAMPLE	A495444	Rep: 0	R378485

LABORATORY SERVICES TERMS & CONDITIONS

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HERITAGE ENVIRONMENTAL SERVICES, LLC

Run: R378575 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date....: 21-SEP-99 Review Date: 21-SEP-99	
QC Type	Lab ID	Source	Anal Run		
BLA02	Q102046	NA	R378646		
LCS	Q102046	SPEX	R378646		
SPI02	Q102046	A495534	R378646		
DPS02	Q102046	A495534	R378646		
SAMPLE	A495445	Rep: 0	R378646		

Run: R378485		Analyst.: J KRAMER		Run Date...: 17-SEP-99		Instrument: ICP			
ANALYTICAL		Reviewer: S ENDERSON		Review Date: 20-SEP-99					
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	ALUMINUM	1		1.00	mg/L	100	
CDL01	Q102001	INORGAN	ALUMINUM	10		9.91	mg/L	99.1	
ICS-A	Q102002	PERKIN	ALUMINUM	500		470.	mg/L	94	
BLA02	Q101988	NA	ALUMINUM			< 0.0200	mg/L		
LCS	Q101989	SPEX	ALUMINUM	20.0		19.9	mg/L	99.5	
SPI02	Q101989	A495325	ALUMINUM	0	2.00	2.10	mg/L	105	
DPS02	Q101989	A495325	ALUMINUM	0	2.00	2.04	mg/L	102	2.9
CCV	Q102002	INORGAN	ALUMINUM	5.00		4.91	mg/L	98.2	
BLA01	Q102002	NA	ALUMINUM			< 0.0200	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	ALUMINUM	5.00		5.07	mg/L	101.4	
BLA01	Q102002	NA	ALUMINUM			< 0.0200	mg/L		
ICS-A	Q102004	PERKIN	ALUMINUM	500		472.	mg/L	94.4	

Run: R378646		Analyst.: J KRAMER		Run Date...: 21-SEP-99		Instrument: ICP			
ANALYTICAL		Reviewer: S ENDERSON		Review Date: 22-SEP-99					
ICV01	Q102082	PERKIN	ALUMINUM	1		1.01	mg/L	101	
CDL01	Q102082	INORGAN	ALUMINUM	10		10.1	mg/L	101	
ICS-A	Q102083	PERKIN-	ALUMINUM	500		472.	mg/L	94.4	
BLA02	Q102046	NA	ALUMINUM			< 0.0200	mg/L		
LCS	Q102046	SPEX	ALUMINUM	20.0		19.9	mg/L	99.5	
SPI02	Q102046	A495534	ALUMINUM	0	2.00	1.99	mg/L	99.5	
DPS02	Q102046	A495534	ALUMINUM	0	2.00	1.98	mg/L	99	.5
CCV	Q102084	INORGAN	ALUMINUM	5.00		4.88	mg/L	97.6	
BLA01	Q102084	NA	ALUMINUM			< 0.0200	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	ALUMINUM	5.00		4.95	mg/L	99	
BLA01	Q102084	NA	ALUMINUM			< 0.0200	mg/L		
ICS-A	Q102085	PERKIN-	ALUMINUM	500		487.	mg/L	97.4	

ANTIMONY ICP SW846-6010B				M102.3	
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A					
Run: R378401 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date...: 17-SEP-99 Review Date: 20-SEP-99	
QC Type	Lab ID	Source	Anal Run		
BLA02	Q101988	NA	R378485		
LCS	Q101989	SPEX	R378485		
SPI02	Q101989	A495325	R378485		
DPS02	Q101989	A495325	R378485		

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TERMS & CONDITIONS**

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Anal Run						
SAMPLE	A495440	Rep: 0	R378485						
SAMPLE	A495441	Rep: 0	R378485						
SAMPLE	A495442	Rep: 0	R378485						
SAMPLE	A495443	Rep: 0	R378485						
SAMPLE	A495444	Rep: 0	R378485						
Run: R378575 Analyst.: D BUSCO Run Date...: 21-SEP-99 PREP Reviewer: W WATNESS Review Date: 21-SEP-99									
BLA02	Q102046	NA	R378646						
LCS	Q102046	SPEX	R378646						
SPI02	Q102046	A495534	R378646						
DPS02	Q102046	A495534	R378646						
SAMPLE	A495445	Rep: 0	R378646						
Run: R378485 Analyst.: J KRAMER Run Date...: 17-SEP-99 Instrument: ICP ANALYTICAL Reviewer: S ENDERSON Review Date: 20-SEP-99									
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	ANTIMONY	1		0.931	mg/L	93.1	
CDL01	Q102001	PERKIN	ANTIMONY	0.120		0.120	mg/L	100	
ICS-A	Q102001	PERKIN	ANTIMONY	0.6		0.524	mg/L	87.3	
BLA02	Q101988	NA	ANTIMONY			< 0.0120	mg/L		
LCS	Q101989	SPEX	ANTIMONY	5.00		5.08	mg/L	101.6	
SPI02	Q101989	A495325	ANTIMONY	0	0.500	0.505	mg/L	101	
DPS02	Q101989	A495325	ANTIMONY	0	0.500	0.498	mg/L	99.6	1.4
CCV	Q102002	INORGAN	ANTIMONY	1		0.973	mg/L	97.3	
BLA01	Q102002	NA	ANTIMONY			< 0.0120	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	ANTIMONY	1		0.966	mg/L	96.6	
BLA01	Q102002	NA	ANTIMONY			< 0.0120	mg/L		
CDL01	Q102004	PERKIN	ANTIMONY	0.120		0.132	mg/L	110	
ICS-A	Q102004	PERKIN	ANTIMONY	0.6		0.517	mg/L	86.2	
Run: R378646 Analyst.: J KRAMER Run Date...: 21-SEP-99 Instrument: ICP ANALYTICAL Reviewer: S ENDERSON Review Date: 22-SEP-99									
ICV01	Q102082	PERKIN	ANTIMONY	1		0.985	mg/L	98.5	
CDL01	Q102082	PERKIN	ANTIMONY	0.120		0.110	mg/L	91.7	
ICS-A	Q102082	PERKIN	ANTIMONY	0.6		0.630	mg/L	105	
BLA02	Q102046	NA	ANTIMONY			< 0.0120	mg/L		
LCS	Q102046	SPEX	ANTIMONY	5.00		5.14	mg/L	102.8	
SPI02	Q102046	A495534	ANTIMONY	0	0.500	0.505	mg/L	101	
DPS02	Q102046	A495534	ANTIMONY	0	0.500	0.506	mg/L	101.2	2
CCV	Q102084	INORGAN	ANTIMONY	1		0.987	mg/L	98.7	
BLA01	Q102084	NA	ANTIMONY			< 0.0120	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	ANTIMONY	1		0.993	mg/L	99.3	
BLA01	Q102084	NA	ANTIMONY			0.0232	mg/L		
CDL01	Q102085	PERKIN	ANTIMONY	0.120		0.134	mg/L	111.7	
ICS-A	Q102085	PERKIN	ANTIMONY	0.6		0.610	mg/L	101.7	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

ARSENIC TRACE ICP SW846-6010B

M103.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401 Analyst.: D BUSCO Run Date...: 17-SEP-99
 PREP Reviewer: W WATNESS Review Date: 20-SEP-99

QC Type	Lab ID	Source	Anal Run
SAMPLE	A495440	Rep: 0	R378572
SAMPLE	A495441	Rep: 0	R378572
SAMPLE	A495442	Rep: 0	R378572
SAMPLE	A495443	Rep: 0	R378572
SAMPLE	A495444	Rep: 0	R378572
BLA02	Q101989	NA	R378572
LCS	Q101989	INORGAN	R378572
SPI02	Q101989	A495325	R378572
DPS02	Q101989	A495325	R378572

Run: R378575 Analyst.: D BUSCO Run Date...: 21-SEP-99
 PREP Reviewer: W WATNESS Review Date: 21-SEP-99

SAMPLE	A495445	Rep: 0	R378707
BLA02	Q102046	NA	R378707
LCS	Q102046	INORGAN	R378707
SPI02	Q102046	A495534	R378707
DPS02	Q102046	A495534	R378707

Run: R378572 Analyst.: G MAPP Run Date...: 20-SEP-99 Instrument: TRACE ICP
 ANALYTICAL Reviewer: S O'NEAL Review Date: 21-SEP-99

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102036	PERKIN-	ARSENIC	0.05		0.0517	mg/L	103.4	
CDL01	Q102036	INORGAN	ARSENIC	0.5		0.514	mg/L	102.8	
ICS-A	Q102036	PERKIN	ARSENIC	0.1		0.0985	mg/L	98.5	
CCV	Q102036	INORGAN	ARSENIC	0.1		0.100	mg/L	100	
BLA01	Q102037	NA	ARSENIC			< 0.00200	mg/L		
BLA02	Q101989	NA	ARSENIC			< 0.00200	mg/L		
LCS	Q101989	INORGAN	ARSENIC	0.5		0.569	mg/L	113.8	
SPI02	Q101989	A495325	ARSENIC	0	2	2.00	mg/L	100	
DPS02	Q101989	A495325	ARSENIC	0	2	1.94	mg/L	97	3
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
CCV	Q102037	INORGAN	ARSENIC	0.1		0.0975	mg/L	97.5	
BLA01	Q102037	NA	ARSENIC			< 0.00200	mg/L		
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102037	INORGAN	ARSENIC	0.1		0.0978	mg/L	97.8	
BLA01	Q102037	NA	ARSENIC			< 0.00200	mg/L		
CDL01	Q102038	PERKIN-	ARSENIC	0.02		0.0184	mg/L	92	
ICS-A	Q102038	PERKIN	ARSENIC	0.1		0.0959	mg/L	95.9	

Run: R378707 Analyst.: G MAPP Run Date...: 22-SEP-99 Instrument: TRACE ICP
 ANALYTICAL Reviewer: A HILSCHER Review Date: 23-SEP-99

ICV01	Q102133	PERKIN-	ARSENIC	0.05		0.0487	mg/L	97.4	
CDL01	Q102134	INORGAN	ARSENIC	0.5		0.502	mg/L	100.4	
ICS-A	Q102134	PERKIN	ARSENIC	0.1		0.101	mg/L	101	
CCV	Q102134	INORGAN	ARSENIC	0.1		0.103	mg/L	103	
BLA01	Q102134	NA	ARSENIC			< 0.00200	mg/L		
BLA02	Q102046	NA	ARSENIC			< 0.00200	mg/L		
LCS	Q102046	INORGAN	ARSENIC	0.5		0.514	mg/L	102.8	
SPI02	Q102046	A495534	ARSENIC	0	2	2.05	mg/L	102.5	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
DPS02	Q102046	A495534	ARSENIC	0	2	2	mg/L	100	2.5
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102134	INORGAN	ARSENIC	0.1		0.103	mg/L	103	
BLA01	Q102134	NA	ARSENIC			< 0.00200	mg/L		
CDL01	Q102135	PERKIN-	ARSENIC	0.02		0.0172	mg/L	86	
ICS-A	Q102135	PERKIN	ARSENIC	0.1		0.0969	mg/L	96.9	

BARIUM ICP SW846-6010B

M104.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401
PREP

Analyst.: D BUSCO
Reviewer: W WATNESS

Run Date....: 17-SEP-99
Review Date: 20-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q101988	NA	R378485
LCS	Q101989	SPEX	R378485
SPI02	Q101989	A495325	R378485
DPS02	Q101989	A495325	R378485
SAMPLE	A495440	Rep: 0	R378485
SAMPLE	A495441	Rep: 0	R378485
SAMPLE	A495442	Rep: 0	R378485
SAMPLE	A495443	Rep: 0	R378485
SAMPLE	A495444	Rep: 0	R378485

Run: R378575
PREP

Analyst.: D BUSCO
Reviewer: W WATNESS

Run Date....: 21-SEP-99
Review Date: 21-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q102046	NA	R378646
LCS	Q102046	SPEX	R378646
SPI02	Q102046	A495534	R378646
DPS02	Q102046	A495534	R378646
SAMPLE	A495445	Rep: 0	R378646

Run: R378485
ANALYTICAL

Analyst.: J KRAMER
Reviewer: S ENDERSON

Run Date....: 17-SEP-99
Review Date: 20-SEP-99

Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	BARIUM	1		1.01	mg/L	101	
CDL01	Q102001	INORGAN	BARIUM	10		9.97	mg/L	99.7	
ICS-A	Q102001	PERKIN	BARIUM	0.500		0.471	mg/L	94.2	
BLA02	Q101988	NA	BARIUM			< 0.00400	mg/L		
LCS	Q101989	SPEX	BARIUM	20.0		20.3	mg/L	101.5	
SPI02	Q101989	A495325	BARIUM	0.120	2.00	2.14	mg/L	101	
DPS02	Q101989	A495325	BARIUM	0.120	2.00	2.12	mg/L	100	1
CCV	Q102002	INORGAN	BARIUM	5.00		4.93	mg/L	98.6	
BLA01	Q102002	NA	BARIUM			< 0.00400	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	BARIUM	5.00		5.13	mg/L	102.6	
BLA01	Q102002	NA	BARIUM			< 0.00400	mg/L		
ICS-A	Q102004	PERKIN	BARIUM	0.500		0.481	mg/L	96.2	

Run: R378646
ANALYTICAL

Analyst.: J KRAMER
Reviewer: S ENDERSON

Run Date....: 21-SEP-99
Review Date: 22-SEP-99

Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102082	PERKIN	BARIUM	1		1.02	mg/L	102	
CDL01	Q102082	INORGAN	BARIUM	10		10.2	mg/L	102	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICS-A	Q102082	PERKIN	BARIUM	0.500		0.476	mg/L	95.2	
BLA02	Q102046	NA	BARIUM			< 0.00400	mg/L		
LCS	Q102046	SPEX	BARIUM	20.0		20.2	mg/L	101	
SPI02	Q102046	A495534	BARIUM	0.104	2.00	2.11	mg/L	100.3	
DPS02	Q102046	A495534	BARIUM	0.104	2.00	2.08	mg/L	98.8	1.5
CCV	Q102084	INORGAN	BARIUM	5.00		4.91	mg/L	98.2	
BLA01	Q102084	NA	BARIUM			< 0.00400	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	BARIUM	5.00		4.94	mg/L	98.8	
BLA01	Q102084	NA	BARIUM			< 0.00400	mg/L		
ICS-A	Q102085	PERKIN	BARIUM	0.500		0.484	mg/L	96.8	

BERYLLIUM ICP SW846-6010B

M105.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401
PREP
Analyst.: D BUSCO
Reviewer: W WATNESS
Run Date...: 17-SEP-99
Review Date: 20-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q101988	NA	R378485
LCS	Q101989	SPEX	R378485
SPI02	Q101989	A495325	R378485
DPS02	Q101989	A495325	R378485
SAMPLE	A495440	Rep: 0	R378485
SAMPLE	A495441	Rep: 0	R378485
SAMPLE	A495442	Rep: 0	R378485
SAMPLE	A495443	Rep: 0	R378485
SAMPLE	A495444	Rep: 0	R378485

Run: R378575
PREP
Analyst.: D BUSCO
Reviewer: W WATNESS
Run Date...: 21-SEP-99
Review Date: 21-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q102046	NA	R378646
LCS	Q102046	SPEX	R378646
SPI02	Q102046	A495534	R378646
DPS02	Q102046	A495534	R378646
SAMPLE	A495445	Rep: 0	R378646

Run: R378485
ANALYTICAL
Analyst.: J KRAMER
Reviewer: S ENDERSON
Run Date...: 17-SEP-99
Review Date: 20-SEP-99
Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	BERYLLIUM	1		0.934	mg/L	93.4	
CDL01	Q102001	INORGAN	BERYLLIUM	10		9.72	mg/L	97.2	
ICS-A	Q102001	PERKIN	BERYLLIUM	0.500		0.441	mg/L	88.2	
BLA02	Q101988	NA	BERYLLIUM			< 0.00160	mg/L		
LCS	Q101989	SPEX	BERYLLIUM	0.500		0.495	mg/L	99	
SPI02	Q101989	A495325	BERYLLIUM	0	0.050	0.0491	mg/L	98.2	
DPS02	Q101989	A495325	BERYLLIUM	0	0.050	0.0485	mg/L	97	1.2
CCV	Q102002	INORGAN	BERYLLIUM	5.00		4.88	mg/L	97.6	
BLA01	Q102002	NA	BERYLLIUM			< 0.00160	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	BERYLLIUM	5.00		5.03	mg/L	100.6	
BLA01	Q102002	NA	BERYLLIUM			< 0.00160	mg/L		

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TERMS & CONDITIONS**

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CDL01	Q102004	PERKIN	BERYLLIUM	0.010		0.00940	mg/L	94	
ICS-A	Q102004	PERKIN	BERYLLIUM	0.500		0.436	mg/L	87.2	
Run: R378646 ANALYTICAL Analyst.: J KRAMER Run Date...: 21-SEP-99 Instrument: ICP Reviewer: S ENDERSON Review Date: 22-SEP-99									
ICV01	Q102082	PERKIN	BERYLLIUM	1		0.966	mg/L	96.6	
CDL01	Q102082	INORGAN	BERYLLIUM	10		10.1	mg/L	101	
ICS-A	Q102082	PERKIN	BERYLLIUM	0.500		0.442	mg/L	88.4	
BLA02	Q102046	NA	BERYLLIUM			< 0.00160	mg/L		
LCS	Q102046	SPEX	BERYLLIUM	0.500		0.477	mg/L	95.4	
SPI02	Q102046	A495534	BERYLLIUM	0	0.050	0.0466	mg/L	93.2	
DPS02	Q102046	A495534	BERYLLIUM	0	0.050	0.0460	mg/L	92	1.3
CCV	Q102084	INORGAN	BERYLLIUM	5.00		4.70	mg/L	94	
BLA01	Q102084	NA	BERYLLIUM			0.00178	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	BERYLLIUM	5.00		4.86	mg/L	97.2	
BLA01	Q102084	NA	BERYLLIUM			< 0.00160	mg/L		
CDL01	Q102085	PERKIN	BERYLLIUM	0.010		0.00971	mg/L	97.1	
ICS-A	Q102085	PERKIN	BERYLLIUM	0.500		0.447	mg/L	89.4	

CADMIUM ICP SW846-6010B				M108.3					
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A									
Run: R378401 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date...: 17-SEP-99 Review Date: 20-SEP-99					
QC Type	Lab ID	Source	Anal Run						
BLA02	Q101988	NA	R378485						
LCS	Q101989	SPEX	R378485						
SPI02	Q101989	A495325	R378485						
DPS02	Q101989	A495325	R378485						
SAMPLE	A495440	Rep: 0	R378485						
SAMPLE	A495441	Rep: 0	R378485						
SAMPLE	A495442	Rep: 0	R378485						
SAMPLE	A495443	Rep: 0	R378485						
SAMPLE	A495444	Rep: 0	R378485						
Run: R378575 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date...: 21-SEP-99 Review Date: 21-SEP-99					
BLA02	Q102046	NA	R378646						
LCS	Q102046	SPEX	R378646						
SPI02	Q102046	A495534	R378646						
DPS02	Q102046	A495534	R378646						
SAMPLE	A495445	Rep: 0	R378646						
Run: R378485 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date...: 17-SEP-99 Review Date: 20-SEP-99		Instrument: ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	CADMIUM	1		0.968	mg/L	96.8	
CDL01	Q102001	INORGAN	CADMIUM	10		9.74	mg/L	97.4	
ICS-A	Q102001	PERKIN	CADMIUM	1.00		0.858	mg/L	85.8	
BLA02	Q101988	NA	CADMIUM			< 0.00200	mg/L		
LCS	Q101989	SPEX	CADMIUM	0.500		0.500	mg/L	100	
SPI02	Q101989	A495325	CADMIUM	0	0.050	0.0480	mg/L	96	
DPS02	Q101989	A495325	CADMIUM	0	0.050	0.0494	mg/L	98.8	2.9
CCV	Q102002	INORGAN	CADMIUM	5.00		4.86	mg/L	97.2	
BLA01	Q102002	NA	CADMIUM			< 0.00200	mg/L		

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	CADMIUM	5.00		4.97	mg/L	99.4	
BLA01	Q102002	NA	CADMIUM			< 0.00200	mg/L		
CDL01	Q102004	PERKIN	CADMIUM	0.010		0.0101	mg/L	101	
ICS-A	Q102004	PERKIN	CADMIUM	1.00		0.844	mg/L	84.4	
Run: R378646 ANALYTICAL Analyst.: J KRAMER Run Date...: 21-SEP-99 Instrument: ICP Reviewer: S ENDERSON Review Date: 22-SEP-99									
ICV01	Q102082	PERKIN	CADMIUM	1		1.00	mg/L	100	
CDL01	Q102082	INORGAN	CADMIUM	10		10.1	mg/L	101	
ICS-A	Q102082	PERKIN	CADMIUM	1.00		0.855	mg/L	85.5	
BLA02	Q102046	NA	CADMIUM			< 0.00200	mg/L		
LCS	Q102046	SPEX	CADMIUM	0.500		0.477	mg/L	95.4	
SPI02	Q102046	A495534	CADMIUM	0	0.050	0.0463	mg/L	92.6	
DPS02	Q102046	A495534	CADMIUM	0	0.050	0.0440	mg/L	88	5.1
CCV	Q102084	INORGAN	CADMIUM	5.00		4.64	mg/L	92.8	
BLA01	Q102084	NA	CADMIUM			< 0.00200	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	CADMIUM	5.00		4.81	mg/L	96.2	
BLA01	Q102084	NA	CADMIUM			< 0.00200	mg/L		
CDL01	Q102085	PERKIN	CADMIUM	0.010		0.00971	mg/L	97.1	
ICS-A	Q102085	PERKIN	CADMIUM	1.00		0.863	mg/L	86.3	

CALCIUM ICP SW846-6010B

M109.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date...: 17-SEP-99 Review Date: 20-SEP-99					
QC Type	Lab ID	Source	Anal Run						
BLA02	Q101988	NA	R378485						
LCS	Q101989	SPEX	R378485						
SPI02	Q101989	A495325	R378485						
DPS02	Q101989	A495325	R378485						
SAMPLE	A495440	Rep: 0	R378485						
SAMPLE	A495441	Rep: 0	R378485						
SAMPLE	A495442	Rep: 0	R378485						
SAMPLE	A495443	Rep: 0	R378485						
SAMPLE	A495444	Rep: 0	R378485						
Run: R378575 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date...: 21-SEP-99 Review Date: 21-SEP-99					
BLA02	Q102046	NA	R378646						
LCS	Q102046	SPEX	R378646						
SPI02	Q102046	A495534	R378646						
DPS02	Q102046	A495534	R378646						
SAMPLE	A495445	Rep: 0	R378646						
Run: R378485 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date...: 17-SEP-99 Review Date: 20-SEP-99					
				Instrument: ICP					
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	SPEX	CALCIUM	20		20.0	mg/L	100	
ICS-A	Q102002	PERKIN-	CALCIUM	500		468.	mg/L	93.6	

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BLA02	Q101988	NA	CALCIUM			< 0.0800	mg/L		
LCS	Q101989	SPEX	CALCIUM	100		101.	mg/L	101	
SPI02	Q101989	A495325	CALCIUM	84.2	100	182.	mg/L	97.8	
DPS02	Q101989	A495325	CALCIUM	84.2	100	179.	mg/L	94.8	3.1
CCV	Q102002	INORGAN	CALCIUM	50.0		49.6	mg/L	98.8	
BLA01	Q102002	NA	CALCIUM			< 0.0800	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	CALCIUM	50.0		50.2	mg/L	100.4	
BLA01	Q102002	NA	CALCIUM			< 0.0800	mg/L		
ICS-A	Q102004	PERKIN-	CALCIUM	500		454.	mg/L	90.8	

Run: R378646
ANALYTICAL

Analyst.: J KRAMER
Reviewer: S ENDERSON

Run Date....: 21-SEP-99
Review Date: 22-SEP-99

Instrument: ICP

ICV01	Q102082	SPEX	CALCIUM	20		20.6	mg/L	103	
ICS-A	Q102083	PERKIN-	CALCIUM	500		468.	mg/L	93.6	
BLA02	Q102046	NA	CALCIUM			< 0.0800	mg/L		
LCS	Q102046	SPEX	CALCIUM	100		96.8	mg/L	96.8	
SPI02	Q102046	A495534	CALCIUM	119.	100	211.	mg/L	92	
DPS02	Q102046	A495534	CALCIUM	119.	100	210.	mg/L	91	1.1
CCV	Q102084	INORGAN	CALCIUM	50.0		47.6	mg/L	95.2	
BLA01	Q102084	NA	CALCIUM			< 0.0800	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	CALCIUM	50.0		49.2	mg/L	98.4	
BLA01	Q102084	NA	CALCIUM			< 0.0800	mg/L		
ICS-A	Q102085	PERKIN-	CALCIUM	500		474.	mg/L	94.8	

CHROMIUM ICP SW846-6010B

M110.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401
PREP

Analyst.: D BUSCO
Reviewer: W WATNESS

Run Date....: 17-SEP-99
Review Date: 20-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q101988	NA	R378485
LCS	Q101989	SPEX	R378485
SPI02	Q101989	A495325	R378485
DPS02	Q101989	A495325	R378485
SAMPLE	A495440	Rep: 0	R378485
SAMPLE	A495441	Rep: 0	R378485
SAMPLE	A495442	Rep: 0	R378485
SAMPLE	A495443	Rep: 0	R378485
SAMPLE	A495444	Rep: 0	R378485

Run: R378575
PREP

Analyst.: D BUSCO
Reviewer: W WATNESS

Run Date....: 21-SEP-99
Review Date: 21-SEP-99

BLA02	Q102046	NA	R378646
LCS	Q102046	SPEX	R378646
SPI02	Q102046	A495534	R378646
DPS02	Q102046	A495534	R378646
SAMPLE	A495445	Rep: 0	R378646

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HERITAGE ENVIRONMENTAL SERVICES, LLC

Run: R378485 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date....: 17-SEP-99 Review Date: 20-SEP-99		Instrument: ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	CHROMIUM	1		0.963	mg/L	96.3	
CDL01	Q102001	INORGAN	CHROMIUM	10		9.80	mg/L	98	
ICS-A	Q102001	PERKIN	CHROMIUM	0.500		0.434	mg/L	86.8	
BLA02	Q101988	NA	CHROMIUM			< 0.00400	mg/L		
LCS	Q101989	SPEX	CHROMIUM	2.00		2.00	mg/L	100	
SPI02	Q101989	A495325	CHROMIUM	0	0.200	0.194	mg/L	97	
DPS02	Q101989	A495325	CHROMIUM	0	0.200	0.192	mg/L	96	
CCV	Q102002	INORGAN	CHROMIUM	5.00		4.90	mg/L	98	
BLA01	Q102002	NA	CHROMIUM			< 0.00400	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	CHROMIUM	5.00		5.02	mg/L	100.4	
BLA01	Q102002	NA	CHROMIUM			< 0.00400	mg/L		
CDL01	Q102004	PERKIN	CHROMIUM	0.020		0.0182	mg/L	91	
ICS-A	Q102004	PERKIN	CHROMIUM	0.500		0.428	mg/L	85.6	

Run: R378646 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date....: 21-SEP-99 Review Date: 22-SEP-99		Instrument: ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102082	PERKIN	CHROMIUM	1		0.989	mg/L	98.9	
CDL01	Q102082	INORGAN	CHROMIUM	10		10.1	mg/L	101	
ICS-A	Q102082	PERKIN	CHROMIUM	0.500		0.431	mg/L	86.2	
BLA02	Q102046	NA	CHROMIUM			< 0.00400	mg/L		
LCS	Q102046	SPEX	CHROMIUM	2.00		1.92	mg/L	96	
SPI02	Q102046	A495534	CHROMIUM	0	0.200	0.186	mg/L	93	
DPS02	Q102046	A495534	CHROMIUM	0	0.200	0.184	mg/L	92	1.1
CCV	Q102084	INORGAN	CHROMIUM	5.00		4.74	mg/L	94.8	
BLA01	Q102084	NA	CHROMIUM			< 0.00400	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	CHROMIUM	5.00		4.85	mg/L	97	
BLA01	Q102084	NA	CHROMIUM			< 0.00400	mg/L		
CDL01	Q102085	PERKIN	CHROMIUM	0.020		0.0206	mg/L	103	
ICS-A	Q102085	PERKIN	CHROMIUM	0.500		0.432	mg/L	86.4	

COBALT ICP SW846-6010B				M111.3
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A				
Run: R378401 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date...: 17-SEP-99 Review Date: 20-SEP-99
QC Type	Lab ID	Source	Anal Run	
BLA02	Q101988	NA	R378485	
LCS	Q101989	SPEX	R378485	
SPI02	Q101989	A495325	R378485	
DPS02	Q101989	A495325	R378485	
SAMPLE	A495440	Rep: 0	R378485	
SAMPLE	A495441	Rep: 0	R378485	
SAMPLE	A495442	Rep: 0	R378485	
SAMPLE	A495443	Rep: 0	R378485	
SAMPLE	A495444	Rep: 0	R378485	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

Run: R378575 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date....: 21-SEP-99 Review Date: 21-SEP-99	
QC Type	Lab ID	Source	Anal Run		
BLA02	Q102046	NA	R378646		
LCS	Q102046	SPEX	R378646		
SPI02	Q102046	A495534	R378646		
DPS02	Q102046	A495534	R378646		
SAMPLE	A495445	Rep: 0	R378646		

Run: R378485 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date....: 17-SEP-99 Review Date: 20-SEP-99		Instrument: ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	COBALT	1		0.961	mg/L	96.1	
CDL01	Q102001	INORGAN	COBALT	10		9.77	mg/L	97.7	
ICS-A	Q102001	PERKIN	COBALT	0.500		0.428	mg/L	85.6	
BLA02	Q101988	NA	COBALT			< 0.00400	mg/L		
LCS	Q101989	SPEX	COBALT	5.00		4.93	mg/L	98.6	
SPI02	Q101989	A495325	COBALT	0	0.500	0.482	mg/L	96.4	
DPS02	Q101989	A495325	COBALT	0	0.500	0.477	mg/L	95.4	
CCV	Q102002	INORGAN	COBALT	5.00		4.85	mg/L	97	
BLA01	Q102002	NA	COBALT			< 0.00400	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	COBALT	5.00		4.95	mg/L	99	
BLA01	Q102002	NA	COBALT			< 0.00400	mg/L		
CDL01	Q102004	PERKIN	COBALT	0.100		0.102	mg/L	102	
ICS-A	Q102004	PERKIN	COBALT	0.500		0.428	mg/L	85.6	

Run: R378646 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date....: 21-SEP-99 Review Date: 22-SEP-99		Instrument: ICP			
ICV01	Q102082	PERKIN	COBALT	1		0.990	mg/L	99	
CDL01	Q102082	INORGAN	COBALT	10		10.1	mg/L	101	
ICS-A	Q102082	PERKIN	COBALT	0.500		0.428	mg/L	85.6	
BLA02	Q102046	NA	COBALT			< 0.00400	mg/L		
LCS	Q102046	SPEX	COBALT	5.00		4.73	mg/L	94.6	
SPI02	Q102046	A495534	COBALT	0	0.500	0.457	mg/L	91.4	
DPS02	Q102046	A495534	COBALT	0	0.500	0.454	mg/L	90.8	
CCV	Q102084	INORGAN	COBALT	5.00		4.68	mg/L	93.6	
BLA01	Q102084	NA	COBALT			< 0.00400	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	COBALT	5.00		4.82	mg/L	96.4	
BLA01	Q102084	NA	COBALT			< 0.00400	mg/L		
CDL01	Q102085	PERKIN	COBALT	0.100		0.104	mg/L	104	
ICS-A	Q102085	PERKIN	COBALT	0.500		0.436	mg/L	87.2	

COPPER ICP SW846-6010B

M112.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date...: 17-SEP-99 Review Date: 20-SEP-99	
QC Type	Lab ID	Source	Anal Run		
BLA02	Q101988	NA	R378485		
LCS	Q101989	SPEX	R378485		

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QC Type	Lab ID	Source	Anal Run
SPI02	Q101989	A495325	R378485
DPS02	Q101989	A495325	R378485
SAMPLE	A495440	Rep: 0	R378485
SAMPLE	A495441	Rep: 0	R378485
SAMPLE	A495442	Rep: 0	R378485
SAMPLE	A495443	Rep: 0	R378485
SAMPLE	A495444	Rep: 0	R378485

Run: R378575 Analyst.: D BUSCO Run Date...: 21-SEP-99
 PREP Reviewer: W WATNESS Review Date: 21-SEP-99

BLA02	Q102046	NA	R378646
LCS	Q102046	SPEX	R378646
SPI02	Q102046	A495534	R378646
DPS02	Q102046	A495534	R378646
SAMPLE	A495445	Rep: 0	R378646

Run: R378485 Analyst.: J KRAMER Run Date...: 17-SEP-99 Instrument: ICP
 ANALYTICAL Reviewer: S ENDERSON Review Date: 20-SEP-99

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	COPPER	1		0.977	mg/L	97.7	
CDL01	Q102001	INORGAN	COPPER	10		9.99	mg/L	99.9	
ICS-A	Q102001	PERKIN	COPPER	0.500		0.465	mg/L	93	
BLA02	Q101988	NA	COPPER			0.0127	mg/L		
LCS	Q101989	SPEX	COPPER	2.50		2.51	mg/L	100.4	
SPI02	Q101989	A495325	COPPER	0	0.250	0.252	mg/L	100.8	
DPS02	Q101989	A495325	COPPER	0	0.250	0.249	mg/L	99.6	1.2
CCV	Q102002	INORGAN	COPPER	5.00		4.91	mg/L	98.2	
BLA01	Q102002	NA	COPPER			< 0.00800	mg/L		
SAMPLE	A495440	See Cert. of Analysis, Rep: 0							
SAMPLE	A495441	See Cert. of Analysis, Rep: 0							
SAMPLE	A495442	See Cert. of Analysis, Rep: 0							
SAMPLE	A495443	See Cert. of Analysis, Rep: 0							
SAMPLE	A495444	See Cert. of Analysis, Rep: 0							
CCV	Q102002	INORGAN	COPPER	5.00		5.09	mg/L	101.8	
BLA01	Q102002	NA	COPPER			< 0.00800	mg/L		
CDL01	Q102004	PERKIN	COPPER	0.050		0.0509	mg/L	101.8	
ICS-A	Q102004	PERKIN	COPPER	0.500		0.472	mg/L	94.4	

Run: R378646 Analyst.: J KRAMER Run Date...: 21-SEP-99 Instrument: ICP
 ANALYTICAL Reviewer: S ENDERSON Review Date: 22-SEP-99

ICV01	Q102082	PERKIN	COPPER	1		0.990	mg/L	99	
CDL01	Q102082	INORGAN	COPPER	10		10.2	mg/L	102	
ICS-A	Q102082	PERKIN	COPPER	0.500		0.468	mg/L	93.6	
BLA02	Q102046	NA	COPPER			< 0.00800	mg/L		
LCS	Q102046	SPEX	COPPER	2.50		2.49	mg/L	99.6	
SPI02	Q102046	A495534	COPPER	0	0.250	0.264	mg/L	105.6	
DPS02	Q102046	A495534	COPPER	0	0.250	0.260	mg/L	104	1.5
CCV	Q102084	INORGAN	COPPER	5.00		4.87	mg/L	97.4	
BLA01	Q102084	NA	COPPER			< 0.00800	mg/L		
SAMPLE	A495445	See Cert. of Analysis, Rep: 0							
CCV	Q102084	INORGAN	COPPER	5.00		4.91	mg/L	98.2	
BLA01	Q102084	NA	COPPER			< 0.00800	mg/L		
CDL01	Q102085	PERKIN	COPPER	0.050		0.0546	mg/L	109.2	
ICS-A	Q102085	PERKIN	COPPER	0.500		0.470	mg/L	94	

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IRON ICP SW846-6010B

M115.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401
PREPAnalyst.: D BUSCO
Reviewer: W WATNESSRun Date...: 17-SEP-99
Review Date: 20-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q101988	NA	R378485
LCS	Q101989	SPEX	R378485
SPI02	Q101989	A495325	R378485
DPS02	Q101989	A495325	R378485
SAMPLE	A495440	Rep: 0	R378485
SAMPLE	A495441	Rep: 0	R378485
SAMPLE	A495442	Rep: 0	R378485
SAMPLE	A495443	Rep: 0	R378485
SAMPLE	A495444	Rep: 0	R378485

Run: R378575
PREPAnalyst.: D BUSCO
Reviewer: W WATNESSRun Date...: 21-SEP-99
Review Date: 21-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q102046	NA	R378646
LCS	Q102046	SPEX	R378646
SPI02	Q102046	A495534	R378646
DPS02	Q102046	A495534	R378646
SAMPLE	A495445	Rep: 0	R378646

Run: R378485
ANALYTICALAnalyst.: J KRAMER
Reviewer: S ENDERSONRun Date...: 17-SEP-99
Review Date: 20-SEP-99

Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	IRON	1		0.970	mg/L	97	
CDL01	Q102001	INORGAN	IRON	10		9.79	mg/L	97.9	
ICS-A	Q102002	PERKIN	IRON	200		170.	mg/L	85	
BLA02	Q101988	NA	IRON			< 0.0100	mg/L		
LCS	Q101989	SPEX	IRON	10.0		9.68	mg/L	96.8	
SPI02	Q101989	A495325	IRON	0.775	1.00	1.71	mg/L	93.5	
DPS02	Q101989	A495325	IRON	0.775	1.00	1.69	mg/L	91.5	2.2
CCV	Q102002	INORGAN	IRON	5.00		4.76	mg/L	95.2	
BLA01	Q102002	NA	IRON			< 0.0100	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	IRON	5.00		4.90	mg/L	98	
BLA01	Q102002	NA	IRON			< 0.0100	mg/L		
ICS-A	Q102004	PERKIN	IRON	200		167.	mg/L	83.5	

Run: R378646
ANALYTICALAnalyst.: J KRAMER
Reviewer: S ENDERSONRun Date...: 21-SEP-99
Review Date: 22-SEP-99

Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102082	PERKIN	IRON	1		0.992	mg/L	99.2	
CDL01	Q102082	INORGAN	IRON	10		10.0	mg/L	100	
ICS-A	Q102083	PERKIN	IRON	200		170.	mg/L	85	
BLA02	Q102046	NA	IRON			< 0.0100	mg/L		
LCS	Q102046	SPEX	IRON	10.0		9.47	mg/L	94.7	
SPI02	Q102046	A495534	IRON	0.165	1.00	1.10	mg/L	93.5	
DPS02	Q102046	A495534	IRON	0.165	1.00	1.09	mg/L	92.5	1.1
CCV	Q102084	INORGAN	IRON	5.00		4.68	mg/L	93.6	
BLA01	Q102084	NA	IRON			< 0.0100	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	IRON	5.00		4.78	mg/L	95.6	

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 - c. of Client's failure to perform its obligations under this Agreement.

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q102084	NA	IRON			< 0.0100	mg/L		
ICS-A	Q102085	PERKIN-	IRON	200		172.	mg/L	86	

LEAD TRACE ICP SW846-6010B

M116.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401 Analyst.: D BUSCO Run Date....: 17-SEP-99
 PREP Reviewer: W WATNESS Review Date: 20-SEP-99

QC Type	Lab ID	Source	Anal Run
SAMPLE	A495440	Rep: 0	R378572
SAMPLE	A495441	Rep: 0	R378572
SAMPLE	A495442	Rep: 0	R378572
SAMPLE	A495443	Rep: 0	R378572
SAMPLE	A495444	Rep: 0	R378572
BLA02	Q101989	NA	R378572
LCS	Q101989	INORGAN	R378572
SPI02	Q101989	A495325	R378572
DPS02	Q101989	A495325	R378572

Run: R378575 Analyst.: D BUSCO Run Date....: 21-SEP-99
 PREP Reviewer: W WATNESS Review Date: 21-SEP-99

QC Type	Lab ID	Source	Anal Run
SAMPLE	A495445	Rep: 0	R378707
BLA02	Q102046	NA	R378707
LCS	Q102046	INORGAN	R378707
SPI02	Q102046	A495534	R378707
DPS02	Q102046	A495534	R378707

Run: R378572 Analyst.: G MAPP Run Date....: 20-SEP-99 Instrument: TRACE ICP
 ANALYTICAL Reviewer: S O'NEAL Review Date: 21-SEP-99

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102036	PERKIN-	LEAD	0.05		0.0495	mg/L	99	
CDL01	Q102036	INORGAN	LEAD	0.5		0.517	mg/L	103.4	
ICS-A	Q102036	PERKIN	LEAD	0.05		0.0437	mg/L	87.4	
CCV	Q102036	INORGAN	LEAD	0.1		0.100	mg/L	100	
BLA01	Q102037	NA	LEAD			< 0.00200	mg/L		
BLA02	Q101989	NA	LEAD			< 0.00200	mg/L		
LCS	Q101989	INORGAN	LEAD	0.5		0.555	mg/L	111	
SPI02	Q101989	A495325	LEAD	0	0.5	0.488	mg/L	97.6	
DPS02	Q101989	A495325	LEAD	0	0.5	0.474	mg/L	94.8	2.9
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
CCV	Q102037	INORGAN	LEAD	0.1		0.0974	mg/L	97.4	
BLA01	Q102037	NA	LEAD			< 0.00200	mg/L		
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102037	INORGAN	LEAD	0.1		0.0952	mg/L	95.2	
BLA01	Q102037	NA	LEAD			< 0.00200	mg/L		
CDL01	Q102038	PERKIN-	LEAD	0.006		0.00547	mg/L	91.2	
ICS-A	Q102038	PERKIN	LEAD	0.05		0.0421	mg/L	84.2	

Run: R378707 Analyst.: G MAPP Run Date....: 22-SEP-99 Instrument: TRACE ICP
 ANALYTICAL Reviewer: A HILSCHER Review Date: 23-SEP-99

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102133	PERKIN-	LEAD	0.05		0.0512	mg/L	102.4	
CDL01	Q102134	INORGAN	LEAD	0.5		0.500	mg/L	100	
ICS-A	Q102134	PERKIN	LEAD	0.05		0.0440	mg/L	88	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q102134	INORGAN	LEAD	0.1		0.103	mg/L	103	
BLA01	Q102134	NA	LEAD			< 0.00200	mg/L		
BLA02	Q102046	NA	LEAD			< 0.00200	mg/L		
LCS	Q102046	INORGAN	LEAD	0.5		0.503	mg/L	100.6	
SPI02	Q102046	A495534	LEAD	0	0.5	0.506	mg/L	101.2	
DPS02	Q102046	A495534	LEAD	0	0.5	0.49	mg/L	98	3.2
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102134	INORGAN	LEAD	0.1		0.103	mg/L	103	
BLA01	Q102134	NA	LEAD			< 0.00200	mg/L		
CDL01	Q102135	PERKIN-	LEAD	0.006		0.00693	mg/L	115.5	
ICS-A	Q102135	PERKIN	LEAD	0.05		0.0433	mg/L	86.6	

MAGNESIUM ICP SW846-6010B

M118.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401 Analyst.: D BUSCO Run Date...: 17-SEP-99
PREP Reviewer: W WATNESS Review Date: 20-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q101988	NA	R378485
LCS	Q101989	SPEX	R378485
SPI02	Q101989	A495325	R378485
DPS02	Q101989	A495325	R378485
SAMPLE	A495440	Rep: 0	R378485
SAMPLE	A495441	Rep: 0	R378485
SAMPLE	A495442	Rep: 0	R378485
SAMPLE	A495443	Rep: 0	R378485
SAMPLE	A495444	Rep: 0	R378485

Run: R378575 Analyst.: D BUSCO Run Date...: 21-SEP-99
PREP Reviewer: W WATNESS Review Date: 21-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q102046	NA	R378646
LCS	Q102046	SPEX	R378646
SPI02	Q102046	A495534	R378646
DPS02	Q102046	A495534	R378646
SAMPLE	A495445	Rep: 0	R378646

Run: R378485 Analyst.: J KRAMER Run Date...: 17-SEP-99 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 20-SEP-99

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	SPEX	MAGNESIUM	20		20.3	mg/L	101.5	
ICS-A	Q102002	PERKIN-	MAGNESIUM	500		493.	mg/L	98.6	
BLA02	Q101988	NA	MAGNESIUM			< 0.0800	mg/L		
LCS	Q101989	SPEX	MAGNESIUM	100		103.	mg/L	103	
SPI02	Q101989	A495325	MAGNESIUM	38.7	100	141.	mg/L	102.3	
DPS02	Q101989	A495325	MAGNESIUM	38.7	100	139.	mg/L	100.3	2
CCV	Q102002	INORGAN	MAGNESIUM	50.0		49.9	mg/L	99.8	
BLA01	Q102002	NA	MAGNESIUM			< 0.0800	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	MAGNESIUM	50.0		51.2	mg/L	102.4	
BLA01	Q102002	NA	MAGNESIUM			< 0.0800	mg/L		
ICS-A	Q102004	PERKIN-	MAGNESIUM	500		486.	mg/L	97.2	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

Run: R378646 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date...: 21-SEP-99 Review Date: 22-SEP-99		Instrument: ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102082	SPEX	MAGNESIUM	20		20.6	mg/L	103	
ICS-A	Q102083	PERKIN-	MAGNESIUM	500		491.	mg/L	98.2	
BLA02	Q102046	NA	MAGNESIUM			< 0.0800	mg/L		
LCS	Q102046	SPEX	MAGNESIUM	100		101.	mg/L	101	
SPI02	Q102046	A495534	MAGNESIUM	61.2	100	162.	mg/L	100.8	
DPS02	Q102046	A495534	MAGNESIUM	61.2	100	160.	mg/L	98.8	2
CCV	Q102084	INORGAN	MAGNESIUM	50.0		49.0	mg/L	98	
BLA01	Q102084	NA	MAGNESIUM			< 0.0800	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	MAGNESIUM	50.0		49.8	mg/L	99.6	
BLA01	Q102084	NA	MAGNESIUM			< 0.0800	mg/L		
ICS-A	Q102085	PERKIN-	MAGNESIUM	500		501.	mg/L	100.2	

MANGANESE ICP SW846-6010B				M119.3					
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A									
Run: R378401 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date....: 17-SEP-99 Review Date: 20-SEP-99					
QC Type	Lab ID	Source	Anal Run						
BLA02	Q101988	NA	R378485						
LCS	Q101989	SPEX	R378485						
SPI02	Q101989	A495325	R378485						
DPS02	Q101989	A495325	R378485						
SAMPLE	A495440	Rep: 0	R378485						
SAMPLE	A495441	Rep: 0	R378485						
SAMPLE	A495442	Rep: 0	R378485						
SAMPLE	A495443	Rep: 0	R378485						
SAMPLE	A495444	Rep: 0	R378485						
Run: R378575 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date....: 21-SEP-99 Review Date: 21-SEP-99					
BLA02	Q102046	NA	R378646						
LCS	Q102046	SPEX	R378646						
SPI02	Q102046	A495534	R378646						
DPS02	Q102046	A495534	R378646						
SAMPLE	A495445	Rep: 0	R378646						
Run: R378485 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date....: 17-SEP-99 Review Date: 20-SEP-99		Instrument: ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	MANGANESE	1		0.973	mg/L	97.3	
CDL01	Q102001	INORGAN	MANGANESE	10		9.79	mg/L	97.9	
ICS-A	Q102001	PERKIN	MANGANESE	0.500		0.439	mg/L	87.8	
BLA02	Q101988	NA	MANGANESE			< 0.00400	mg/L		
LCS	Q101989	SPEX	MANGANESE	5.00		4.95	mg/L	99	
SPI02	Q101989	A495325	MANGANESE	0.118	0.500	0.600	mg/L	96.4	
DPS02	Q101989	A495325	MANGANESE	0.118	0.500	0.595	mg/L	95.4	1
CCV	Q102002	INORGAN	MANGANESE	5.00		4.88	mg/L	97.6	
BLA01	Q102002	NA	MANGANESE			< 0.00400	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	MANGANESE	5.00		5.00	mg/L	100	
BLA01	Q102002	NA	MANGANESE			< 0.00400	mg/L		
CDL01	Q102004	PERKIN	MANGANESE	0.030		0.0294	mg/L	98	
ICS-A	Q102004	PERKIN	MANGANESE	0.500		0.436	mg/L	87.2	
Run: R378646 Analyst.: J KRAMER Run Date....: 21-SEP-99 Instrument: ICP ANALYTICAL Reviewer: S ENDERSON Review Date: 22-SEP-99									
ICV01	Q102082	PERKIN	MANGANESE	1		0.997	mg/L	99.7	
CDL01	Q102082	INORGAN	MANGANESE	10		10.1	mg/L	101	
ICS-A	Q102082	PERKIN	MANGANESE	0.500		0.439	mg/L	87.8	
BLA02	Q102046	NA	MANGANESE			< 0.00400	mg/L		
LCS	Q102046	SPEX	MANGANESE	5.00		4.79	mg/L	95.8	
SPI02	Q102046	A495534	MANGANESE	0	0.500	0.469	mg/L	93.8	
DPS02	Q102046	A495534	MANGANESE	0	0.500	0.465	mg/L	93	9
CCV	Q102084	INORGAN	MANGANESE	5.00		4.73	mg/L	94.6	
BLA01	Q102084	NA	MANGANESE			< 0.00400	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	MANGANESE	5.00		4.85	mg/L	97	
BLA01	Q102084	NA	MANGANESE			< 0.00400	mg/L		
CDL01	Q102085	PERKIN	MANGANESE	0.030		0.0306	mg/L	102	
ICS-A	Q102085	PERKIN	MANGANESE	0.500		0.442	mg/L	88.4	

MERCURY CVAA SW846-7470A

M120.1

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

Run: R378584
PREPAnalyst.: K KAMARA
Reviewer: D CZERNYRun Date....: 20-SEP-99
Review Date: 22-SEP-99

QC Type	Lab ID	Source	Anal Run
LCS	Q102043		R378672
BLA02	Q102043		R378672
SPI02	Q102043	A495443	R378672
DPS02	Q102043	A495443	R378672
SAMPLE	A495440	Rep: 0	R378672
SAMPLE	A495441	Rep: 0	R378672
SAMPLE	A495442	Rep: 0	R378672
SAMPLE	A495443	Rep: 0	R378672
SAMPLE	A495444	Rep: 0	R378672
SAMPLE	A495445	Rep: 0	R378672

Run: R378672
ANALYTICALAnalyst.: R DALAL
Reviewer: D CZERNYRun Date....: 21-SEP-99
Review Date: 22-SEP-99

Instrument: CVAA

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102105		MERCURY	0.002		0.00187	mg/L	93.5	
CDL01	Q102106		MERCURY	0.0002		0.00021	mg/L	105	
CCV	Q102106		MERCURY	0.003		0.00295	mg/L	98.3	
BLA01	Q102106		MERCURY			< 0.00008	mg/L		
LCS	Q102043		MERCURY	0.002		0.00174	mg/L	87	
BLA02	Q102043		MERCURY			< 0.00008	mg/L		
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SPI02	Q102043	A495443	MERCURY	0	0.001	0.00091	mg/L	91	
CCV	Q102106		MERCURY	0.003		0.0028	mg/L	93.3	
BLA01	Q102106		MERCURY			< 0.00008	mg/L		
DPS02	Q102043	A495443	MERCURY	0	0.001	0.00093	mg/L	93	2.2
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102106		MERCURY	0.003		0.0028	mg/L	93.3	
BLA01	Q102106		MERCURY			< 0.00008	mg/L		
CDL01	Q102106		MERCURY	0.0002		0.00019	mg/L	95	

NICKEL ICP SW846-6010B				M122.3					
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A									
Run: R378401 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date...: 17-SEP-99 Review Date: 20-SEP-99					
QC Type	Lab ID	Source	Anal Run						
BLA02	Q101988	NA	R378485						
LCS	Q101989	SPEX	R378485						
SPI02	Q101989	A495325	R378485						
DPS02	Q101989	A495325	R378485						
SAMPLE	A495440	Rep: 0	R378485						
SAMPLE	A495441	Rep: 0	R378485						
SAMPLE	A495442	Rep: 0	R378581						
SAMPLE	A495443	Rep: 0	R378485						
SAMPLE	A495444	Rep: 0	R378485						
Run: R378575 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date...: 21-SEP-99 Review Date: 21-SEP-99					
BLA02	Q102046	NA	R378646						
LCS	Q102046	SPEX	R378646						
SPI02	Q102046	A495534	R378646						
DPS02	Q102046	A495534	R378646						
SAMPLE	A495445	Rep: 0	R378646						
Run: R378485 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date...: 17-SEP-99 Review Date: 20-SEP-99		Instrument: ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	NICKEL	1		0.972	mg/L	97.2	
CDL01	Q102001	INORGAN	NICKEL	10		9.76	mg/L	97.6	
ICS-A	Q102001	PERKIN	NICKEL	1.00		0.847	mg/L	84.7	
BLA02	Q101988	NA	NICKEL			< 0.00400	mg/L		
LCS	Q101989	SPEX	NICKEL	5.00		4.96	mg/L	99.2	
SPI02	Q101989	A495325	NICKEL	0	0.500	0.486	mg/L	97.2	
DPS02	Q101989	A495325	NICKEL	0	0.500	0.480	mg/L	96	1.2
CCV	Q102002	INORGAN	NICKEL	5.00		4.85	mg/L	97	
BLA01	Q102002	NA	NICKEL			< 0.00400	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	NICKEL	5.00		4.94	mg/L	98.8	
BLA01	Q102002	NA	NICKEL			< 0.00400	mg/L		
CDL01	Q102004	PERKIN	NICKEL	0.080		0.0773	mg/L	96.6	
ICS-A	Q102004	PERKIN	NICKEL	1.00		0.841	mg/L	84.1	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

Run: R378581 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date...: 20-SEP-99 Review Date: 22-SEP-99		Instrument: ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102041	PERKIN	NICKEL	1		0.981	mg/L	98.1	
CDL01	Q102042	INORGAN	NICKEL	10		9.98	mg/L	99.8	
ICS-A	Q102042	PERKIN	NICKEL	1.00		0.827	mg/L	82.7	
CCV	Q102071	INORGAN	NICKEL	5.00		5.01	mg/L	100.2	
BLA01	Q102071	NA	NICKEL			< 0.00400	mg/L		
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
CCV	Q102071	INORGAN	NICKEL	5.00		4.98	mg/L	99.6	
BLA01	Q102071	NA	NICKEL			< 0.00400	mg/L		
CDL01	Q102072	PERKIN	NICKEL	0.080		0.0843	mg/L	105.4	
ICS-A	Q102072	PERKIN	NICKEL	1.00		0.888	mg/L	88.8	
Run: R378646 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date...: 21-SEP-99 Review Date: 22-SEP-99		Instrument: ICP			
ICV01	Q102082	PERKIN	NICKEL	1		1.00	mg/L	100	
CDL01	Q102082	INORGAN	NICKEL	10		10.1	mg/L	101	
ICS-A	Q102082	PERKIN	NICKEL	1.00		0.838	mg/L	83.8	
BLA02	Q102046	NA	NICKEL			< 0.00400	mg/L		
LCS	Q102046	SPEX	NICKEL	5.00		4.76	mg/L	95.2	
SPI02	Q102046	A495534	NICKEL	0	0.500	0.470	mg/L	94	
DPS02	Q102046	A495534	NICKEL	0	0.500	0.468	mg/L	93.6	
CCV	Q102084	INORGAN	NICKEL	5.00		4.68	mg/L	93.6	
BLA01	Q102084	NA	NICKEL			< 0.00400	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	NICKEL	5.00		4.79	mg/L	95.8	
BLA01	Q102084	NA	NICKEL			< 0.00400	mg/L		
CDL01	Q102085	PERKIN	NICKEL	0.080		0.0800	mg/L	100	
ICS-A	Q102085	PERKIN	NICKEL	1.00		0.856	mg/L	85.6	

POTASSIUM ICP SW846-6010B

M126.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date...: 17-SEP-99 Review Date: 20-SEP-99	
QC Type	Lab ID	Source	Anal Run		
BLA02	Q101988	NA	R378485		
LCS	Q101989	SPEX	R378485		
SPI02	Q101989	A495325	R378485		
DPS02	Q101989	A495325	R378485		
SAMPLE	A495440	Rep: 0	R378485		
SAMPLE	A495441	Rep: 0	R378485		
SAMPLE	A495442	Rep: 0	R378485		
SAMPLE	A495443	Rep: 0	R378485		
SAMPLE	A495444	Rep: 0	R378485		
Run: R378575 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date...: 21-SEP-99 Review Date: 21-SEP-99	
BLA02	Q102046	NA	R378646		
LCS	Q102046	SPEX	R378646		
SPI02	Q102046	A495534	R378646		
DPS02	Q102046	A495534	R378646		
SAMPLE	A495445	Rep: 0	R378646		

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Run: R378485 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date...: 17-SEP-99 Review Date: 20-SEP-99		Instrument: ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	POTASSIUM	10		10.3	mg/L	103	
ICV01	Q102001	SPEX	POTASSIUM	20		20.6	mg/L	103	
BLA02	Q101988	NA	POTASSIUM			< 0.0800	mg/L		
LCS	Q101989	SPEX	POTASSIUM	100		106.	mg/L	106	
SPI02	Q101989	A495325	POTASSIUM	1.28	100	109.	mg/L	107.7	
DPS02	Q101989	A495325	POTASSIUM	1.28	100	108.	mg/L	106.7	.9
CCV	Q102002	INORGAN	POTASSIUM	50		51.2	mg/L	102.4	
BLA01	Q102002	NA	POTASSIUM			< 0.0800	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	POTASSIUM	50		53.0	mg/L	106	
BLA01	Q102002	NA	POTASSIUM			< 0.0800	mg/L		
Run: R378646 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date...: 21-SEP-99 Review Date: 22-SEP-99		Instrument: ICP			
ICV01	Q102082	PERKIN	POTASSIUM	10		10.1	mg/L	101	
ICV01	Q102082	SPEX	POTASSIUM	20		20.2	mg/L	101	
BLA02	Q102046	NA	POTASSIUM			< 0.0800	mg/L		
LCS	Q102046	SPEX	POTASSIUM	100		103.	mg/L	103	
SPI02	Q102046	A495534	POTASSIUM	3.01	100	108.	mg/L	105	
DPS02	Q102046	A495534	POTASSIUM	3.01	100	107.	mg/L	104	1
CCV	Q102084	INORGAN	POTASSIUM	50		49.9	mg/L	99.8	
BLA01	Q102084	NA	POTASSIUM			< 0.0800	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	POTASSIUM	50		49.9	mg/L	99.8	
BLA01	Q102084	NA	POTASSIUM			< 0.0800	mg/L		

SELENIUM TRACE ICP SW846-6010B

M128.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date...: 17-SEP-99 Review Date: 20-SEP-99	
QC Type	Lab ID	Source	Anal Run		
SAMPLE	A495440	Rep: 0	R378572		
SAMPLE	A495441	Rep: 0	R378572		
SAMPLE	A495442	Rep: 0	R378572		
SAMPLE	A495443	Rep: 0	R378572		
SAMPLE	A495444	Rep: 0	R378572		
BLA02	Q101989	NA	R378572		
LCS	Q101989	INORGAN	R378572		
SPI02	Q101989	A495325	R378572		
DPS02	Q101989	A495325	R378572		
Run: R378575 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date...: 21-SEP-99 Review Date: 21-SEP-99	
SAMPLE	A495445	Rep: 0	R378897		
BLA02	Q102046	NA	R378707		
LCS	Q102046	INORGAN	R378707		
SPI02	Q102046	A495534	R378707		
DPS02	Q102046	A495534	R378707		

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HERITAGE ENVIRONMENTAL SERVICES, LLC

Run: R378572 ANALYTICAL		Analyst.: G MAPP Reviewer: S O'NEAL		Run Date....: 20-SEP-99 Review Date: 21-SEP-99		Instrument: TRACE ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102036	PERKIN-	SELENIUM	0.05		0.0505	mg/L	101	
CDL01	Q102036	INORGAN	SELENIUM	0.5		0.512	mg/L	102.4	
ICS-A	Q102036	PERKIN	SELENIUM	0.05		0.0497	mg/L	99.4	
CCV	Q102036	INORGAN	SELENIUM	0.1		0.102	mg/L	102	
BLA01	Q102037	NA	SELENIUM			< 0.00200	mg/L		
BLA02	Q101989	NA	SELENIUM			< 0.00200	mg/L		
LCS	Q101989	INORGAN	SELENIUM	0.5		0.568	mg/L	113.6	
SPI02	Q101989	A495325	SELENIUM	0	2	2.07	mg/L	103.5	
DPS02	Q101989	A495325	SELENIUM	0	2	2.03	mg/L	101.5	2
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
CCV	Q102037	INORGAN	SELENIUM	0.1		0.0996	mg/L	99.6	
BLA01	Q102037	NA	SELENIUM			< 0.00200	mg/L		
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102037	INORGAN	SELENIUM	0.1		0.0996	mg/L	99.6	
BLA01	Q102037	NA	SELENIUM			< 0.00200	mg/L		
CDL01	Q102038	PERKIN-	SELENIUM	0.01		0.0110	mg/L	110	
ICS-A	Q102038	PERKIN	SELENIUM	0.05		0.0404	mg/L	80.8	
Run: R378707 ANALYTICAL		Analyst.: G MAPP Reviewer: A HILSCHER		Run Date....: 22-SEP-99 Review Date: 23-SEP-99		Instrument: TRACE ICP			
BLA02	Q102046	NA	SELENIUM			< 0.00200	mg/L		
LCS	Q102046	INORGAN	SELENIUM	0.5		0.531	mg/L	106.2	
SPI02	Q102046	A495534	SELENIUM	0	2	2.16	mg/L	108	
DPS02	Q102046	A495534	SELENIUM	0	2	2.1	mg/L	105	2.8
Run: R378897 ANALYTICAL		Analyst.: G MAPP Reviewer: S O'NEAL		Run Date....: 23-SEP-99 Review Date: 27-SEP-99		Instrument: TRACE ICP			
ICV01	Q102231	PERKIN-	SELENIUM	0.05		0.0505	mg/L	101	
CDL01	Q102231	INORGAN	SELENIUM	0.5		0.483	mg/L	96.6	
ICS-A	Q102231	PERKIN	SELENIUM	0.05		0.0496	mg/L	99.2	
CCV	Q102232	INORGAN	SELENIUM	0.1		0.0965	mg/L	96.5	
BLA01	Q102232	NA	SELENIUM			< 0.00200	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102232	INORGAN	SELENIUM	0.1		0.0980	mg/L	98	
BLA01	Q102234	NA	SELENIUM			< 0.00200	mg/L		
CDL01	Q102233	PERKIN-	SELENIUM	0.01		0.00875	mg/L	87.5	
ICS-A	Q102233	PERKIN	SELENIUM	0.05		0.0478	mg/L	95.6	

SILVER ICP SW846-6010B

M130.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date....: 17-SEP-99 Review Date: 20-SEP-99	
QC Type	Lab ID	Source	Anal Run		
BLA02	Q101988	NA	R378485		
LCS	Q101989	SPEX	R378485		
SPI02	Q101989	A495325	R378485		
DPS02	Q101989	A495325	R378485		
SAMPLE	A495440	Rep: 0	R378485		
SAMPLE	A495441	Rep: 0	R378485		

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Anal Run
SAMPLE	A495442	Rep: 0	R378485
SAMPLE	A495443	Rep: 0	R378485
SAMPLE	A495444	Rep: 0	R378485

Run: R378575 Analyst.: D BUSCO Run Date...: 21-SEP-99
PREP Reviewer: W WATNESS Review Date: 21-SEP-99

BLA02	Q102046	NA	R378646
LCS	Q102046	SPEX	R378646
SPI02	Q102046	A495534	R378646
DPS02	Q102046	A495534	R378646
SAMPLE	A495445	Rep: 0	R378646

Run: R378485 Analyst.: J KRAMER Run Date...: 17-SEP-99 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 20-SEP-99

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	SILVER	0.5		0.507	mg/L	101.4	
CDL01	Q102001	INORGAN	SILVER	2		1.97	mg/L	98.5	
ICS-A	Q102001	PERKIN	SILVER	0.2		0.175	mg/L	87.5	
BLA02	Q101988	NA	SILVER			< 0.00400	mg/L	100	
LCS	Q101989	SPEX	SILVER	0.500		0.500	mg/L	100	
SPI02	Q101989	A495325	SILVER	0	0.050	0.0469	mg/L	93.8	
DPS02	Q101989	A495325	SILVER	0	0.050	0.0455	mg/L	91	
CCV	Q102002	INORGAN	SILVER	1.00		0.975	mg/L	97.5	
BLA01	Q102002	NA	SILVER			< 0.00400	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	SILVER	1.00		0.992	mg/L	99.2	
BLA01	Q102002	NA	SILVER			< 0.00400	mg/L		
CDL01	Q102004	PERKIN	SILVER	0.020		0.0193	mg/L	96.5	
ICS-A	Q102004	PERKIN	SILVER	0.2		0.172	mg/L	86	

Run: R378646 Analyst.: J KRAMER Run Date...: 21-SEP-99 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 22-SEP-99

ICV01	Q102082	PERKIN	SILVER	0.5		0.514	mg/L	102.8	
CDL01	Q102082	INORGAN	SILVER	2		2.00	mg/L	100	
ICS-A	Q102082	PERKIN	SILVER	0.2		0.169	mg/L	84.5	
BLA02	Q102046	NA	SILVER			< 0.00400	mg/L		
LCS	Q102046	SPEX	SILVER	0.500		0.484	mg/L	96.8	
SPI02	Q102046	A495534	SILVER	0	0.050	0.0416	mg/L	83.2	
DPS02	Q102046	A495534	SILVER	0	0.05	0.0386	mg/L	77.2	7.5
CCV	Q102084	INORGAN	SILVER	1.00		0.959	mg/L	95.9	
BLA01	Q102084	NA	SILVER			< 0.00400	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	SILVER	1.00		0.970	mg/L	97	
BLA01	Q102084	NA	SILVER			< 0.00400	mg/L		
CDL01	Q102085	PERKIN	SILVER	0.020		0.0182	mg/L	91	
ICS-A	Q102085	PERKIN	SILVER	0.2		0.172	mg/L	86	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

SODIUM ICP SW846-6010B

M131.3

-Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401
PREPAnalyst.: D BUSCO
Reviewer: W WATNESSRun Date....: 17-SEP-99
Review Date: 20-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q101988	NA	R378485
LCS	Q101989	SPEX	R378485
SPI02	Q101989	A495325	R378485
DPS02	Q101989	A495325	R378485
SAMPLE	A495440	Rep: 0	R378485
SAMPLE	A495441	Rep: 0	R378485
SAMPLE	A495442	Rep: 0	R378485
SAMPLE	A495443	Rep: 0	R378485
SAMPLE	A495444	Rep: 0	R378485

Run: R378575
PREPAnalyst.: D BUSCO
Reviewer: W WATNESSRun Date....: 21-SEP-99
Review Date: 21-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q102046	NA	R378646
LCS	Q102046	SPEX	R378646
SPI02	Q102046	A495534	R378646
DPS02	Q102046	A495534	R378646
SAMPLE	A495445	Rep: 0	R378646

Run: R378485
ANALYTICALAnalyst.: J KRAMER
Reviewer: S ENDERSONRun Date....: 17-SEP-99
Review Date: 20-SEP-99

Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val.	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	SODIUM	1		1.00	mg/L	100	
ICV01	Q102001	SPEX	SODIUM	20		20.2	mg/L	101	
BLA02	Q101988	NA	SODIUM			< 0.0800	mg/L		
LCS	Q101989	SPEX	SODIUM	100		103.	mg/L	103	
SPI02	Q101989	A495325	SODIUM	9.62	100	113.	mg/L	103.4	
DPS02	Q101989	A495325	SODIUM	9.62	100	112.	mg/L	102.4	1
CCV	Q102002	INORGAN	SODIUM	50		49.9	mg/L	99.8	
BLA01	Q102002	NA	SODIUM			< 0.0800	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	SODIUM	50		51.7	mg/L	103.4	
BLA01	Q102002	NA	SODIUM			< 0.0800	mg/L		

Run: R378646
ANALYTICALAnalyst.: J KRAMER
Reviewer: S ENDERSONRun Date....: 21-SEP-99
Review Date: 22-SEP-99

Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val.	Observed	Units	% Rec	RPD
ICV01	Q102082	PERKIN	SODIUM	1		1.01	mg/L	101	
ICV01	Q102082	SPEX	SODIUM	20		20.3	mg/L	101.5	
BLA02	Q102046	NA	SODIUM			< 0.0800	mg/L		
LCS	Q102046	SPEX	SODIUM	100		102.	mg/L	102	
SPI02	Q102046	A495534	SODIUM	80.8	100	186.	mg/L	105.2	
DPS02	Q102046	A495534	SODIUM	80.8	100	184.	mg/L	103.2	1.9
CCV	Q102084	INORGAN	SODIUM	50		49.6	mg/L	99.2	
BLA01	Q102084	NA	SODIUM			< 0.0800	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	SODIUM	50		49.7	mg/L	99.4	
BLA01	Q102084	NA	SODIUM			< 0.0800	mg/L		

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THALLIUM TRACE ICP SW846-6010B

M134.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401
PREPAnalyst.: D BUSCO
Reviewer: W WATNESSRun Date....: 17-SEP-99
Review Date: 20-SEP-99

QC Type	Lab ID	Source	Anal Run
SAMPLE	A495440	Rep: 0	R378572
SAMPLE	A495441	Rep: 0	R378572
SAMPLE	A495442	Rep: 0	R378572
SAMPLE	A495443	Rep: 0	R378572
SAMPLE	A495444	Rep: 0	R378572
BLA02	Q101989	NA	R378572
LCS	Q101989	INORGAN	R378572
SPI02	Q101989	A495325	R378572
DPS02	Q101989	A495325	R378572

Run: R378575
PREPAnalyst.: D BUSCO
Reviewer: W WATNESSRun Date....: 21-SEP-99
Review Date: 21-SEP-99

QC Type	Lab ID	Source	Anal Run
SAMPLE	A495445	Rep: 0	R378707
BLA02	Q102046	NA	R378707
LCS	Q102046	INORGAN	R378707
SPI02	Q102046	A495534	R378707
DPS02	Q102046	A495534	R378707

Run: R378572
ANALYTICALAnalyst.: G MAPP
Reviewer: S O'NEALRun Date....: 20-SEP-99
Review Date: 21-SEP-99

Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True/Samp	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102036	PERKIN-	THALLIUM	0.05		0.0538	mg/L	107.6	
CDL01	Q102036	INORGAN	THALLIUM	0.5		0.511	mg/L	102.2	
ICS-A	Q102036	PERKIN	THALLIUM	0.1		0.0899	mg/L	89.9	
CCV	Q102036	INORGAN	THALLIUM	0.1		0.104	mg/L	104	
BLA01	Q102037	NA	THALLIUM			< 0.00400	mg/L		
BLA02	Q101989	NA	THALLIUM			< 0.00400	mg/L		
LCS	Q101989	INORGAN	THALLIUM	0.5		0.565	mg/L	113	
SPI02	Q101989	A495325	THALLIUM	0	3	2.99	mg/L	99.7	
DPS02	Q101989	A495325	THALLIUM	0	3	2.90	mg/L	96.7	3.1
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
CCV	Q102037	INORGAN	THALLIUM	0.1		0.101	mg/L	101	
BLA01	Q102037	NA	THALLIUM			< 0.00400	mg/L		
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102037	INORGAN	THALLIUM	0.1		0.102	mg/L	102	
BLA01	Q102037	NA	THALLIUM			< 0.00400	mg/L		
CDL01	Q102038	PERKIN-	THALLIUM	0.02		0.0206	mg/L	103	
ICS-A	Q102038	PERKIN	THALLIUM	0.1		0.0817	mg/L	81.7	

Run: R378707
ANALYTICALAnalyst.: G MAPP
Reviewer: A HILSCHERRun Date....: 22-SEP-99
Review Date: 23-SEP-99

Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True/Samp	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102133	PERKIN-	THALLIUM	0.05		0.0516	mg/L	103.2	
CDL01	Q102134	INORGAN	THALLIUM	0.5		0.499	mg/L	99.8	
ICS-A	Q102134	PERKIN	THALLIUM	0.1		0.0877	mg/L	87.7	
CCV	Q102134	INORGAN	THALLIUM	0.1		0.105	mg/L	105	
BLA01	Q102134	NA	THALLIUM			< 0.00400	mg/L		
BLA02	Q102046	NA	THALLIUM			< 0.00400	mg/L		
LCS	Q102046	INORGAN	THALLIUM	0.5		0.521	mg/L	104.2	
SPI02	Q102046	A495534	THALLIUM	0	3	3.04	mg/L	101.3	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
DPS02	Q102046	A495534	THALLIUM	0	3	2.96	mg/L	98.7	2.6
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102134	INORGAN	THALLIUM	0.1		0.105	mg/L	105	
BLA01	Q102134	NA	THALLIUM			< 0.00400	mg/L		
CDL01	Q102135	PERKIN	THALLIUM	0.02		0.0184	mg/L	92	
ICS-A	Q102135	PERKIN	THALLIUM	0.1		0.0859	mg/L	85.9	

VANADIUM ICP SW846-6010B

M138.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R378401 Analyst.: D BUSCO Run Date....: 17-SEP-99
PREP Reviewer: W WATNESS Review Date: 20-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q101988	NA	R378485
LCS	Q101989	SPEX	R378485
SPI02	Q101989	A495325	R378485
DPS02	Q101989	A495325	R378485
SAMPLE	A495440	Rep: 0	R378485
SAMPLE	A495441	Rep: 0	R378485
SAMPLE	A495442	Rep: 0	R378485
SAMPLE	A495443	Rep: 0	R378485
SAMPLE	A495444	Rep: 0	R378485

Run: R378575 Analyst.: D BUSCO Run Date....: 21-SEP-99
PREP Reviewer: W WATNESS Review Date: 21-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q102046	NA	R378646
LCS	Q102046	SPEX	R378646
SPI02	Q102046	A495534	R378646
DPS02	Q102046	A495534	R378646
SAMPLE	A495445	Rep: 0	R378646

Run: R378485 Analyst.: J KRAMER Run Date....: 17-SEP-99 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 20-SEP-99

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	VANADIUM	1		0.968	mg/L	96.8	
CDL01	Q102001	INORGAN	VANADIUM	10		9.86	mg/L	98.6	
ICS-A	Q102001	PERKIN	VANADIUM	0.500		0.453	mg/L	90.6	
BLA02	Q101988	NA	VANADIUM			< 0.00400	mg/L		
LCS	Q101989	SPEX	VANADIUM	5.00		5.05	mg/L	101	
SPI02	Q101989	A495325	VANADIUM	0	0.500	0.506	mg/L	101.2	
DPS02	Q101989	A495325	VANADIUM	0	0.500	0.500	mg/L	100	1.2
CCV	Q102002	INORGAN	VANADIUM	5.00		4.94	mg/L	98.8	
BLA01	Q102002	NA	VANADIUM			< 0.00400	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	VANADIUM	5.00		5.11	mg/L	102.2	
BLA01	Q102002	NA	VANADIUM			< 0.00400	mg/L		
CDL01	Q102004	PERKIN	VANADIUM	0.100		0.0979	mg/L	97.9	
ICS-A	Q102004	PERKIN	VANADIUM	0.500		0.456	mg/L	91.2	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

Run: R378646 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date....: 21-SEP-99 Review Date: 22-SEP-99		Instrument: ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102082	PERKIN	VANADIUM	1		0.993	mg/L	99.3	
CDL01	Q102082	INORGAN	VANADIUM	10		10.2	mg/L	102	
ICS-A	Q102082	PERKIN	VANADIUM	0.500		0.458	mg/L	91.6	
BLA02	Q102046	NA	VANADIUM			< 0.00400	mg/L		
LCS	Q102046	SPEX	VANADIUM	5.00		4.92	mg/L	98.4	
SPI02	Q102046	A495534	VANADIUM	0	0.500	0.493	mg/L	98.6	
DPS02	Q102046	A495534	VANADIUM	0	0.500	0.487	mg/L	97.4	1.2
CCV	Q102084	INORGAN	VANADIUM	5.00		4.83	mg/L	96.6	
BLA01	Q102084	NA	VANADIUM			< 0.00400	mg/L		
SAMPLE	A495445	See Cert. of Analysis, Rep: 0							
CCV	Q102084	INORGAN	VANADIUM	5.00		4.94	mg/L	98.8	
BLA01	Q102084	NA	VANADIUM			< 0.00400	mg/L		
CDL01	Q102085	PERKIN	VANADIUM	0.100		0.101	mg/L	101	
ICS-A	Q102085	PERKIN	VANADIUM	0.500		0.454	mg/L	90.8	

ZINC ICP SW846-6010B				M139.3					
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A									
Run: R378401 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date....: 17-SEP-99 Review Date: 20-SEP-99					
QC Type	Lab ID	Source	Anal Run						
BLA02	Q101988	NA	R378485						
LCS	Q101989	SPEX	R378485						
SPI02	Q101989	A495325	R378485						
DPS02	Q101989	A495325	R378485						
SAMPLE	A495440	Rep: 0	R378485						
SAMPLE	A495441	Rep: 0	R378485						
SAMPLE	A495442	Rep: 0	R378485						
SAMPLE	A495443	Rep: 0	R378485						
SAMPLE	A495444	Rep: 0	R378485						
Run: R378575 PREP		Analyst.: D BUSCO Reviewer: W WATNESS		Run Date....: 21-SEP-99 Review Date: 21-SEP-99					
BLA02	Q102046	NA	R378646						
LCS	Q102046	SPEX	R378646						
SPI02	Q102046	A495534	R378646						
DPS02	Q102046	A495534	R378646						
SAMPLE	A495445	Rep: 0	R378646						
Run: R378485 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date....: 17-SEP-99 Review Date: 20-SEP-99		Instrument: ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q102001	PERKIN	ZINC	1		0.976	mg/L	97.6	
CDL01	Q102001	INORGAN	ZINC	10		9.73	mg/L	97.3	
ICS-A	Q102001	PERKIN	ZINC	1.00		0.896	mg/L	89.6	
BLA02	Q101988	NA	ZINC			0.0118	mg/L		
LCS	Q101989	SPEX	ZINC	5.00		5.12	mg/L	102.4	
SPI02	Q101989	A495325	ZINC	0.0553	0.500	0.559	mg/L	100.7	
DPS02	Q101989	A495325	ZINC	0.0553	0.500	0.559	mg/L	100.7	0
CCV	Q102002	INORGAN	ZINC	5.00		4.86	mg/L	97.2	
BLA01	Q102002	NA	ZINC			< 0.00800	mg/L		
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
CCV	Q102002	INORGAN	ZINC	5.00		4.92	mg/L	98.4	
BLA01	Q102002	NA	ZINC			< 0.00800	mg/L		
CDL01	Q102004	PERKIN	ZINC	0.040		0.0426	mg/L	106.5	
ICS-A	Q102004	PERKIN	ZINC	1.00		0.885	mg/L	88.5	

Run: R378646
ANALYTICAL

Analyst.: J KRAMER
Reviewer: S ENDERSON

Run Date...: 21-SEP-99
Review Date: 22-SEP-99

Instrument: ICP

ICV01	Q102082	PERKIN	ZINC	1		1.00	mg/L	100	
CDL01	Q102082	INORGAN	ZINC	10		10.0	mg/L	100	
ICS-A	Q102082	PERKIN	ZINC	1.00		0.893	mg/L	89.3	
BLA02	Q102046	NA	ZINC			< 0.00800	mg/L		
LCS	Q102046	SPEX	ZINC	5.00		4.92	mg/L	98.4	
SPI02	Q102046	A495534	ZINC	0	0.500	0.487	mg/L	97.4	
DPS02	Q102046	A495534	ZINC	0	0.500	0.488	mg/L	97.6	2
CCV	Q102084	INORGAN	ZINC	5.00		4.70	mg/L	94	
BLA01	Q102084	NA	ZINC			< 0.00800	mg/L		
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102084	INORGAN	ZINC	5.00		4.82	mg/L	96.4	
BLA01	Q102084	NA	ZINC			< 0.00800	mg/L		
CDL01	Q102085	PERKIN	ZINC	0.040		0.0508	mg/L	127	
ICS-A	Q102085	PERKIN	ZINC	1.00		0.908	mg/L	90.8	

PCB/PESTICIDE SCAN GC/ECD SW846-8081

0305.1

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Run: R378540
PREP

Analyst.: J OELSLAGER
Reviewer: T PINCKERT

Run Date...: 20-SEP-99
Review Date: 21-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q102032		R379048
LCS	Q102032	EMS	R379048
SPI02	Q102032	A495442	R379048
DPS02	Q102032	A495442	R379048
SAMPLE	A495440	Rep: 0	R379048
SAMPLE	A495441	Rep: 0	R379048
SAMPLE	A495442	Rep: 0	R379048
SAMPLE	A495443	Rep: 0	R379048
SAMPLE	A495444	Rep: 0	R379048
SAMPLE	A495445	Rep: 0	R379048

Run: R379048
ANALYTICAL

Analyst.: L JONES
Reviewer: E WERNZ

Run Date...: 25-SEP-99
Review Date: 29-SEP-99

Instrument: GC/ECD

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA02	Q102032		ALPHA-BHC			BDL 0.05	ug/L		
BLA02	Q102032		BETA-BHC			BDL 0.05	ug/L		
BLA02	Q102032		DELTA-BHC			BDL 0.05	ug/L		
BLA02	Q102032		GAMMA-BHC (LINDANE)			BDL 0.05	ug/L		
BLA02	Q102032		HEPTACHLOR			BDL 0.05	ug/L		
BLA02	Q102032		ALDRIN			BDL 0.05	ug/L		
BLA02	Q102032		HEPTACHLOR EPOXIDE			BDL 0.05	ug/L		
BLA02	Q102032		ENDOSULFAN I			BDL 0.05	ug/L		
BLA02	Q102032		DIELDRIN			BDL 0.1	ug/L		
BLA02	Q102032		4,4'-DDE			BDL 0.1	ug/L		

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BLA02	Q102032		ENDRIN			BDL 0.1	ug/L		
BLA02	Q102032		ENDOSULFAN II			BDL 0.1	ug/L		
BLA02	Q102032		4,4'-DDD			BDL 0.1	ug/L		
BLA02	Q102032		ENDOSULFAN SULFATE			BDL 0.1	ug/L		
BLA02	Q102032		4,4'-DDT			BDL 0.1	ug/L		
BLA02	Q102032		METHOXYCHLOR			BDL 0.5	ug/L		
BLA02	Q102032		ENDRIN ALDEHYDE			BDL 0.1	ug/L		
BLA02	Q102032		ENDRIN KETONE			BDL 0.1	ug/L		
BLA02	Q102032		ALPHA-CHLORDANE			BDL 0.5	ug/L		
BLA02	Q102032		GAMMA-CHLORDANE			BDL 0.5	ug/L		
BLA02	Q102032		TOXAPHENE			BDL 1	ug/L		
BLA02	Q102032		PCB AROCLOR 1016			BDL 0.5	ug/L		
BLA02	Q102032		PCB AROCLOR 1221			BDL 0.5	ug/L		
BLA02	Q102032		PCB AROCLOR 1232			BDL 0.5	ug/L		
BLA02	Q102032		PCB AROCLOR 1242			BDL 0.5	ug/L		
BLA02	Q102032		PCB AROCLOR 1248			BDL 0.5	ug/L		
BLA02	Q102032		PCB AROCLOR 1254			BDL 1	ug/L		
BLA02	Q102032		PCB AROCLOR 1260			BDL 1	ug/L		
LCS	Q102032	EMS	GAMMA-BHC (LINDANE)	0.5		0.412	ug/L	82.4	
LCS	Q102032	EMS	HEPTACHLOR	0.5		0.397	ug/L	79.4	
LCS	Q102032	EMS	ALDRIN	0.5		0.438	ug/L	87.6	
LCS	Q102032	EMS	DIELDRIN	1		1.02	ug/L	102	
LCS	Q102032	EMS	ENDRIN	1		1.09	ug/L	109	
LCS	Q102032	EMS	4,4'-DDT	1		0.959	ug/L	95.9	
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SPI02	Q102032	A495442	GAMMA-BHC (LINDANE)	0	1.04	0.764	ug/L	73.5	
SPI02	Q102032	A495442	HEPTACHLOR	0	1.04	0.854	ug/L	82.1	
SPI02	Q102032	A495442	ALDRIN	0	1.04	0.883	ug/L	84.9	
SPI02	Q102032	A495442	DIELDRIN	0	2.08	2.02	ug/L	97.1	
SPI02	Q102032	A495442	ENDRIN	0	2.08	2.04	ug/L	98.1	
SPI02	Q102032	A495442	4,4'-DDT	0	2.08	1.67	ug/L	80.3	
DPS02	Q102032	A495442	GAMMA-BHC (LINDANE)	0	1.11	0.887	ug/L	79.9	8.3
DPS02	Q102032	A495442	HEPTACHLOR	0	1.11	0.916	ug/L	82.5	5
DPS02	Q102032	A495442	ALDRIN	0	1.11	1.01	ug/L	91	6.9
DPS02	Q102032	A495442	DIELDRIN	0	2.22	2.4	ug/L	108.1	10.7
DPS02	Q102032	A495442	ENDRIN	0	2.22	2.4	ug/L	108.1	9.7
DPS02	Q102032	A495442	4,4'-DDT	0	2.22	2.1	ug/L	94.6	16.4
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
CCV	Q102321		ALPHA-BHC	20		19.6	ug/L	98	
CCV	Q102321		GAMMA-BHC (LINDANE)	20		18.3	ug/L	91.5	
CCV	Q102321		HEPTACHLOR	20		19	ug/L	95	
CCV	Q102321		ENDOSULFAN I	20		18.7	ug/L	93.5	
CCV	Q102321		DIELDRIN	40		38.9	ug/L	97.3	
CCV	Q102321		ENDRIN	40		37.4	ug/L	93.5	
CCV	Q102321		4,4'-DDD	40		36.2	ug/L	90.5	
CCV	Q102321		4,4'-DDT	40		36.4	ug/L	91	
CCV	Q102321		METHOXYCHLOR	200		187	ug/L	93.5	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS SW846-8270C

0505.3

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510B

Run: R378798
PREPAnalyst.: P SIMS
Reviewer: C WILLHITERun Date....: 23-SEP-99
Review Date: 24-SEP-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q102167	HLI	R378800
LCS	Q102168	HLI	R378800
SPI02	Q101408	A493383	R377637
DPS02	Q101408	A493383	R377637
SAMPLE	A495440	Rep: 0	R378844
SAMPLE	A495441	Rep: 0	R378844
SAMPLE	A495442	Rep: 0	R378844
SAMPLE	A495443	Rep: 0	R378844

Run: R379201
PREPAnalyst.: A GERKE
Reviewer: C WILLHITERun Date....: 30-SEP-99
Review Date: 01-OCT-99

QC Type	Lab ID	Source	Anal Run
BLA02	Q102398	HLI	R379301
SAMPLE	A495444	Rep: 0	R379301
SAMPLE	A495445	Rep: 0	R379301
LCS	Q102398	HLI	R379301

Run: R377637
ANALYTICALAnalyst.: L DOBBINS
Reviewer: A BRADBURNRun Date....: 01-SEP-99
Review Date: 02-SEP-99

Instrument: GC/MS SVOA

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SPI02	Q101408	A493383	Date and time of analysis	02-SEP-99	01:03:00				
SPI02	Q101408	A493383	ACENAPHTHENE	0	200	194	ug/L	97.2	
SPI02	Q101408	A493383	ACENAPHTHYLENE	0	200	177	ug/L	88.5	
SPI02	Q101408	A493383	ANTHRACENE	0	200	180	ug/L	90.3	
SPI02	Q101408	A493383	BENZO(A)PYRENE	0	200	198	ug/L	99.2	
SPI02	Q101408	A493383	BENZO(B)FLUORANTHENE (3,4-BENZOFUOR	0	200	210	ug/L	105.1	
SPI02	Q101408	A493383	BENZO(G,H,I)PERYLENE	0	200	185	ug/L	92.9	
SPI02	Q101408	A493383	BENZO(K)FLUORANTHENE	0	200	198	ug/L	99.2	
SPI02	Q101408	A493383	BENZYL ALCOHOL	0	200	180	ug/L	90.3	
SPI02	Q101408	A493383	BENZYL BUTYLPHthalate (BUTYLBENZYLPH	0	200	219	ug/L	109.8	
SPI02	Q101408	A493383	BIS(2-CHLOROETHOXY)METHANE	0	200	190	ug/L	95.4	
SPI02	Q101408	A493383	BIS(2-CHLOROETHYL)ETHER	0	200	174	ug/L	87.2	
SPI02	Q101408	A493383	BIS(2-CHLOROISOPROPYL)ETHER	0	200	161	ug/L	80.6	
SPI02	Q101408	A493383	BIS(2-ETHYLHEXYL)PHthalate	0	200	221	ug/L	110.7	
SPI02	Q101408	A493383	4-BROMODIPHENYL ETHER	0	200	181	ug/L	90.5	
SPI02	Q101408	A493383	CARBAZOLE	0	200	203	ug/L	101.7	
SPI02	Q101408	A493383	4-CHLOROANILINE	0	200	164	ug/L	82.1	
SPI02	Q101408	A493383	2-CHLORONAPHTHALENE	0	200	129	ug/L	65	
SPI02	Q101408	A493383	4-CHLOROPHENYL-PHENYLETHER	0	200	163	ug/L	81.8	
SPI02	Q101408	A493383	CHRYSENE	0	200	207	ug/L	103.7	
SPI02	Q101408	A493383	DIBENZ(A,H)ANTHRACENE	0	200	185	ug/L	92.5	
SPI02	Q101408	A493383	DIBENZOFURAN	0	200	171	ug/L	85.5	
SPI02	Q101408	A493383	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	200	159	ug/L	79.6	
SPI02	Q101408	A493383	1,3-DICHLOROBENZENE (M-DICHLOROBENZE	0	200	167	ug/L	83.6	
SPI02	Q101408	A493383	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	200	167	ug/L	83.6	
SPI02	Q101408	A493383	3,3'-DICHLOROBENZIDINE	0	200	151	ug/L	75.7	
SPI02	Q101408	A493383	DIETHYLPHthalate	0	200	198	ug/L	99.2	
SPI02	Q101408	A493383	DIMETHYLPHthalate	0	200	207	ug/L	103.9	
SPI02	Q101408	A493383	DI-N-BUTYLPHthalate	0	200	193	ug/L	96.7	
SPI02	Q101408	A493383	2,4-DINITROTOLUENE	0	200	180	ug/L	90.5	
SPI02	Q101408	A493383	2,6-DINITROTOLUENE	0	200	210	ug/L	105.2	
SPI02	Q101408	A493383	DI-N-OCTYLPHthalate	0	200	252	ug/L	126.2	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

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SP102	Q101408	A493383	FLUORANTHENE	0	200	182	ug/L	91.4	
SP102	Q101408	A493383	FLUORENE	0	200	169	ug/L	84.7	
SP102	Q101408	A493383	HEXACHLOROBENZENE	0	200	179	ug/L	89.9	
SP102	Q101408	A493383	HEXACHLOROBUTADIENE	0	200	173	ug/L	86.8	
SP102	Q101408	A493383	HEXACHLOROCYCLOPENTADIENE	0	200	146	ug/L	73.2	
SP102	Q101408	A493383	HEXACHLOROETHANE	0	200	172	ug/L	86	
SP102	Q101408	A493383	INDENO(1,2,3-CD)PYRENE	0	200	189	ug/L	94.8	
SP102	Q101408	A493383	ISOPHORONE	0	200	186	ug/L	93.4	
SP102	Q101408	A493383	2-METHYLNAPHTHALENE	0	200	180	ug/L	90	
SP102	Q101408	A493383	NAPHTHALENE	0	200	180	ug/L	90.2	
SP102	Q101408	A493383	2-NITROANILINE (O-NITROANILINE)	0	200	206	ug/L	103.4	
SP102	Q101408	A493383	3-NITROANILINE (M-NITROANILINE)	0	200	208	ug/L	104.1	
SP102	Q101408	A493383	4-NITROANILINE (P-NITROANILINE)	0	200	202	ug/L	101.4	
SP102	Q101408	A493383	NITROBENZENE	0	200	191	ug/L	95.6	
SP102	Q101408	A493383	N-NITROSODIPHENYLAMINE	0	200	314	ug/L	157.1	
SP102	Q101408	A493383	N-NITROSO-DI-N-PROPYLAMINE	0	200	191	ug/L	95.7	
SP102	Q101408	A493383	PHENANTHRENE	0	200	188	ug/L	94.5	
SP102	Q101408	A493383	2-PICOLINE	0	200	120	ug/L	60.5	
SP102	Q101408	A493383	PYRENE	0	200	228	ug/L	114.2	
SP102	Q101408	A493383	PYRIDINE	0	200	108	ug/L	54.2	
SP102	Q101408	A493383	1,2,4,5-TETRACHLOROBENZENE	0	200	213	ug/L	106.6	
SP102	Q101408	A493383	1,2,4-TRICHLOROBENZENE	0	200	177	ug/L	88.9	
SP102	Q101408	A493383	BENZOIC ACID	0	200	101	ug/L	50.5	
SP102	Q101408	A493383	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M)	0	200	197	ug/L	98.6	
SP102	Q101408	A493383	2-CHLOROPHENOL	0	200	171	ug/L	85.6	
SP102	Q101408	A493383	2,4-DICHLOROPHENOL	0	200	194	ug/L	97.4	
SP102	Q101408	A493383	2,4-DIMETHYLPHENOL	0	200	145	ug/L	72.6	
SP102	Q101408	A493383	2,4-DINITROPHENOL	0	200	216	ug/L	108.1	
SP102	Q101408	A493383	2-METHYLPHENOL (O-CRESOL)	0	200	176	ug/L	88	
SP102	Q101408	A493383	4-METHYLPHENOL (P-CRESOL)	0	200	197	ug/L	98.8	
SP102	Q101408	A493383	2-NITROPHENOL	0	200	202	ug/L	101	
SP102	Q101408	A493383	4-NITROPHENOL	0	200	141	ug/L	70.7	
SP102	Q101408	A493383	PENTACHLOROPHENOL	0	200	168	ug/L	84	
SP102	Q101408	A493383	PHENOL	0	200	130	ug/L	65.1	
SP102	Q101408	A493383	2,3,4,6-TETRACHLOROPHENOL	0	200	193	ug/L	96.8	
SP102	Q101408	A493383	2,4,5-TRICHLOROPHENOL	0	200	202	ug/L	101.4	
SP102	Q101408	A493383	2,4,6-TRICHLOROPHENOL	0	200	202	ug/L	101.4	
DPS02	Q101408	A493383	Date and time of analysis	02-SEP-99	01:50:00				
DPS02	Q101408	A493383	ACENAPHTHENE	0	200	190	ug/L	95.1	2.2
DPS02	Q101408	A493383	ACENAPHTHYLENE	0	200	170	ug/L	85.2	3.8
DPS02	Q101408	A493383	ANTHRACENE	0	200	176	ug/L	88.3	2.2
DPS02	Q101408	A493383	BENZO(A)PYRENE	0	200	194	ug/L	97.4	1.8
DPS02	Q101408	A493383	BENZO(B)FLUORANTHENE (3,4-BENZOFLUOR)	0	200	207	ug/L	103.6	1.4
DPS02	Q101408	A493383	BENZO(G,H,I)PERYLENE	0	200	174	ug/L	87.4	6.1
DPS02	Q101408	A493383	BENZO(K)FLUORANTHENE	0	200	195	ug/L	97.5	1.7
DPS02	Q101408	A493383	BENZYL ALCOHOL	0	200	170	ug/L	85.3	5.7
DPS02	Q101408	A493383	BENZYL BUTYLPHTHALATE (BUTYLBENZYLPH)	0	200	206	ug/L	103.3	6.1
DPS02	Q101408	A493383	BIS(2-CHLOROETHOXY)METHANE	0	200	180	ug/L	90	5.8
DPS02	Q101408	A493383	BIS(2-CHLOROETHYL)ETHER	0	200	164	ug/L	82.4	5.7
DPS02	Q101408	A493383	BIS(2-CHLOROISOPROPYL)ETHER	0	200	142	ug/L	71.1	12.5
DPS02	Q101408	A493383	BIS(2-ETHYLHEXYL)PHTHALATE	0	200	208	ug/L	104.4	5.9
DPS02	Q101408	A493383	4-BROMODIPHENYL ETHER	0	200	178	ug/L	89	1.7
DPS02	Q101408	A493383	CARBAZOLE	0	200	210	ug/L	105.4	3.6
DPS02	Q101408	A493383	4-CHLOROANILINE	0	200	149	ug/L	74.5	9.7

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DPS02	Q101408	A493383	4-CHLOROPHENYL-PHENYLETHER	0	200	159	ug/L	79.9	2.4
DPS02	Q101408	A493383	CHRYSENE	0	200	198	ug/L	99.1	4.5
DPS02	Q101408	A493383	DIBENZ(A,H)ANTHRACENE	0	200	177	ug/L	89	3.9
DPS02	Q101408	A493383	DIBENZOFURAN	0	200	164	ug/L	82.2	3.9
DPS02	Q101408	A493383	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	0	200	133	ug/L	66.9	17.3
DPS02	Q101408	A493383	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	0	200	146	ug/L	73.2	13.3
DPS02	Q101408	A493383	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	0	200	147	ug/L	73.9	12.3
DPS02	Q101408	A493383	3,3'-DICHLOROBENZIDINE	0	200	177	ug/L	88.7	15.8
DPS02	Q101408	A493383	DIETHYLPHTHALATE	0	200	192	ug/L	96.4	2.9
DPS02	Q101408	A493383	DIMETHYLPHTHALATE	0	200	202	ug/L	101	2.8
DPS02	Q101408	A493383	DI-N-BUTYLPHTHALATE	0	200	190	ug/L	95.1	1.7
DPS02	Q101408	A493383	2,4-DINITROTOLUENE	0	200	176	ug/L	88.5	2.2
DPS02	Q101408	A493383	2,6-DINITROTOLUENE	0	200	204	ug/L	102.4	2.7
DPS02	Q101408	A493383	DI-N-OCTYLPHTHALATE	0	200	250	ug/L	125.5	.6
DPS02	Q101408	A493383	FLUORANTHENE	0	200	182	ug/L	91.1	.3
DPS02	Q101408	A493383	FLUORENE	0	200	164	ug/L	82.1	3.1
DPS02	Q101408	A493383	HEXACHLOROBENZENE	0	200	176	ug/L	88.2	1.9
DPS02	Q101408	A493383	HEXACHLOROBUTADIENE	0	200	153	ug/L	76.7	12.4
DPS02	Q101408	A493383	HEXACHLOROCYCLOPENTADIENE	0	200	132	ug/L	66.2	10
DPS02	Q101408	A493383	HEXACHLOROETHANE	0	200	144	ug/L	72	17.7
DPS02	Q101408	A493383	INDENO(1,2,3-CD)PYRENE	0	200	182	ug/L	91.2	3.9
DPS02	Q101408	A493383	ISOPHORONE	0	200	180	ug/L	90.1	3.6
DPS02	Q101408	A493383	2-METHYLNAPHTHALENE	0	200	165	ug/L	82.8	8.3
DPS02	Q101408	A493383	NAPHTHALENE	0	200	166	ug/L	83.4	7.8
DPS02	Q101408	A493383	2-NITROANILINE (O-NITROANILINE)	0	200	197	ug/L	98.7	4.7
DPS02	Q101408	A493383	3-NITROANILINE (M-NITROANILINE)	0	200	197	ug/L	98.6	5.4
DPS02	Q101408	A493383	4-NITROANILINE (P-NITROANILINE)	0	200	203	ug/L	101.7	.3
DPS02	Q101408	A493383	NITROBENZENE	0	200	179	ug/L	89.5	6.6
DPS02	Q101408	A493383	N-NITROSODIPHENYLAMINE	0	200	307	ug/L	153.9	2.1
DPS02	Q101408	A493383	N-NITROSO-DI-N-PROPYLAMINE	0	200	174	ug/L	87.2	9.3
DPS02	Q101408	A493383	PHENANTHRENE	0	200	186	ug/L	93.4	1.2
DPS02	Q101408	A493383	2-PICOLINE	0	200	77.3	ug/L	38.6	44.2
DPS02	Q101408	A493383	PYRENE	0	200	204	ug/L	102.3	11
DPS02	Q101408	A493383	PYRIDINE	0	200	67.7	ug/L	33.9	46.1
DPS02	Q101408	A493383	1,2,4,5-TETRACHLOROBENZENE	0	200	205	ug/L	103	3.4
DPS02	Q101408	A493383	1,2,4-TRICHLOROBENZENE	0	200	160	ug/L	80.2	10.3
DPS02	Q101408	A493383	BENZOIC ACID	0	200	70.7	ug/L	35.4	35.2
DPS02	Q101408	A493383	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	0	200	183	ug/L	91.6	7.4
DPS02	Q101408	A493383	2-CHLOROPHENOL	0	200	160	ug/L	80.4	6.3
DPS02	Q101408	A493383	2,4-DICHLOROPHENOL	0	200	184	ug/L	92.2	5.5
DPS02	Q101408	A493383	2,4-DIMETHYLPHENOL	0	200	142	ug/L	71.2	1.9
DPS02	Q101408	A493383	2,4-DINITROPHENOL	0	200	210	ug/L	105.3	2.6
DPS02	Q101408	A493383	2-METHYLPHENOL (O-CRESOL)	0	200	160	ug/L	80.4	9
DPS02	Q101408	A493383	4-METHYLPHENOL (P-CRESOL)	0	200	175	ug/L	88	11.6
DPS02	Q101408	A493383	2-NITROPHENOL	0	200	188	ug/L	94.4	6.8
DPS02	Q101408	A493383	4-NITROPHENOL	0	200	136	ug/L	68.1	3.7
DPS02	Q101408	A493383	PENTACHLOROPHENOL	0	200	167	ug/L	83.6	.5
DPS02	Q101408	A493383	PHENOL	0	200	118	ug/L	59.2	9.5
DPS02	Q101408	A493383	2,3,4,6-TETRACHLOROPHENOL	0	200	186	ug/L	93	4
DPS02	Q101408	A493383	2,4,5-TRICHLOROPHENOL	0	200	197	ug/L	98.6	2.8
DPS02	Q101408	A493383	2,4,6-TRICHLOROPHENOL	0	200	194	ug/L	97.2	4.2

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HERITAGE ENVIRONMENTAL SERVICES, LLC

Run: R378800
ANALYTICAL

Analyst.: J MINNIEAR, II
Reviewer: A BRADBURN

Run Date....: 23-SEP-99
Review Date: 27-SEP-99

Instrument: GC/MS SVOA

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA02	Q102167	HLI	Date and time of analysis	23-SEP-99	16:53:00				
BLA02	Q102167	HLI	ACENAPHTHENE			BDL 10	ug/L		
BLA02	Q102167	HLI	ACENAPHTHYLENE			BDL 10	ug/L		
BLA02	Q102167	HLI	ANTHRACENE			BDL 10	ug/L		
BLA02	Q102167	HLI	BENZO(A)PYRENE			BDL 10	ug/L		
BLA02	Q102167	HLI	BENZO(B)FLUORANTHENE (3,4-BENZOFLUOR			BDL 10	ug/L		
BLA02	Q102167	HLI	BENZO(G,H,I)PERYLENE			BDL 10	ug/L		
BLA02	Q102167	HLI	BENZO(K)FLUORANTHENE			BDL 10	ug/L		
BLA02	Q102167	HLI	BENZYL ALCOHOL			BDL 10	ug/L		
BLA02	Q102167	HLI	BENZYL BUTYLPHthalate (BUTYLBENZYLPH			BDL 10	ug/L		
BLA02	Q102167	HLI	BIS(2-CHLOROETHOXY)METHANE			BDL 10	ug/L		
BLA02	Q102167	HLI	BIS(2-CHLOROETHYL)ETHER			BDL 10	ug/L		
BLA02	Q102167	HLI	BIS(2-CHLOROISOPROPYL)ETHER			BDL 10	ug/L		
BLA02	Q102167	HLI	BIS(2-ETHYLHEXYL)PHthalate			BDL 10	ug/L		
BLA02	Q102167	HLI	4-BROMODIPHENYL ETHER			BDL 10	ug/L		
BLA02	Q102167	HLI	CARBAZOLE			BDL 10	ug/L		
BLA02	Q102167	HLI	4-CHLOROANILINE			BDL 10	ug/L		
BLA02	Q102167	HLI	2-CHLORONAPHTHALENE			BDL 10	ug/L		
BLA02	Q102167	HLI	4-CHLOROPHENYL-PHENYLETHER			BDL 10	ug/L		
BLA02	Q102167	HLI	CHRYSENE			BDL 10	ug/L		
BLA02	Q102167	HLI	DIBENZ(A,H)ANTHRACENE			BDL 10	ug/L		
BLA02	Q102167	HLI	DIBENZOFURAN			BDL 10	ug/L		
BLA02	Q102167	HLI	1,2-DICHLOROBENZENE (O-DICHLOROBENZE			BDL 10	ug/L		
BLA02	Q102167	HLI	1,3-DICHLOROBENZENE (M-DICHLOROBENZE			BDL 10	ug/L		
BLA02	Q102167	HLI	1,4-DICHLOROBENZENE (P-DICHLOROBENZE			BDL 10	ug/L		
BLA02	Q102167	HLI	3,3'-DICHLOROBENZIDINE			BDL 20	ug/L		
BLA02	Q102167	HLI	DIETHYLPHthalate			BDL 10	ug/L		
BLA02	Q102167	HLI	DIMETHYLPHthalate			BDL 10	ug/L		
BLA02	Q102167	HLI	DI-N-BUTYLPHthalate			BDL 10	ug/L		
BLA02	Q102167	HLI	2,4-DINITROTOLUENE			BDL 10	ug/L		
BLA02	Q102167	HLI	2,6-DINITROTOLUENE			BDL 10	ug/L		
BLA02	Q102167	HLI	DI-N-OCTYLPHthalate			BDL 10	ug/L		
BLA02	Q102167	HLI	FLUORANTHENE			BDL 10	ug/L		
BLA02	Q102167	HLI	FLUORENE			BDL 10	ug/L		
BLA02	Q102167	HLI	HEXACHLOROBENZENE			BDL 10	ug/L		
BLA02	Q102167	HLI	HEXACHLOROBUTADIENE			BDL 10	ug/L		
BLA02	Q102167	HLI	HEXACHLOROCYCLOPENTADIENE			BDL 10	ug/L		
BLA02	Q102167	HLI	HEXACHLOROETHANE			BDL 10	ug/L		
BLA02	Q102167	HLI	INDENO(1,2,3-CD)PYRENE			BDL 10	ug/L		
BLA02	Q102167	HLI	ISOPHORONE			BDL 10	ug/L		
BLA02	Q102167	HLI	2-METHYLNAPHTHALENE			BDL 10	ug/L		
BLA02	Q102167	HLI	NAPHTHALENE			BDL 10	ug/L		
BLA02	Q102167	HLI	2-NITROANILINE (O-NITROANILINE)			BDL 50	ug/L		
BLA02	Q102167	HLI	3-NITROANILINE (M-NITROANILINE)			BDL 50	ug/L		
BLA02	Q102167	HLI	4-NITROANILINE (P-NITROANILINE)			BDL 50	ug/L		
BLA02	Q102167	HLI	NITROBENZENE			BDL 10	ug/L		
BLA02	Q102167	HLI	N-NITROSODIPHENYLAMINE			BDL 10	ug/L		
BLA02	Q102167	HLI	N-NITROSO-DI-N-PROPYLAMINE			BDL 10	ug/L		
BLA02	Q102167	HLI	PHENANTHRENE			BDL 10	ug/L		
BLA02	Q102167	HLI	2-PICOLINE			BDL 50	ug/L		
BLA02	Q102167	HLI	PYRENE			BDL 10	ug/L		
BLA02	Q102167	HLI	PYRIDINE			BDL 50	ug/L		

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA02	Q102167	HLI	1,2,4,5-TETRACHLOROBENZENE			BDL 10	ug/L		
BLA02	Q102167	HLI	1,2,4-TRICHLOROBENZENE			BDL 10	ug/L		
BLA02	Q102167	HLI	BENZOIC ACID			BDL 50	ug/L		
BLA02	Q102167	HLI	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M)			BDL 10	ug/L		
BLA02	Q102167	HLI	2-CHLOROPHENOL			BDL 10	ug/L		
BLA02	Q102167	HLI	2,4-DICHLOROPHENOL			BDL 10	ug/L		
BLA02	Q102167	HLI	2,4-DIMETHYLPHENOL			BDL 10	ug/L		
BLA02	Q102167	HLI	2,4-DINITROPHENOL			BDL 50	ug/L		
BLA02	Q102167	HLI	2-METHYLPHENOL (O-CRESOL)			BDL 10	ug/L		
BLA02	Q102167	HLI	4-METHYLPHENOL (P-CRESOL)			BDL 10	ug/L		
BLA02	Q102167	HLI	2-NITROPHENOL			BDL 10	ug/L		
BLA02	Q102167	HLI	4-NITROPHENOL			BDL 50	ug/L		
BLA02	Q102167	HLI	PENTACHLOROPHENOL			BDL 50	ug/L		
BLA02	Q102167	HLI	PHENOL			BDL 10	ug/L		
BLA02	Q102167	HLI	2,3,4,6-TETRACHLOROPHENOL			BDL 10	ug/L		
BLA02	Q102167	HLI	2,4,5-TRICHLOROPHENOL			BDL 50	ug/L		
BLA02	Q102167	HLI	2,4,6-TRICHLOROPHENOL			BDL 10	ug/L		
BLA02	Q102167	HLI	2-FLUOROPHENOL					61	
BLA02	Q102167	HLI	PHENOL-D5					44	
BLA02	Q102167	HLI	NITROBENZENE-D5					93	
BLA02	Q102167	HLI	2-FLUOROBIPHENYL					88	
BLA02	Q102167	HLI	2,4,6-TRIBROMOPHENOL					78	
BLA02	Q102167	HLI	TERPHENYL-D14					104	
LCS	Q102168	HLI	Date and time of analysis	23-SEP-99	17:44:00				
LCS	Q102168	HLI	ACENAPHTHENE	100		85.3	ug/L	85.3	
LCS	Q102168	HLI	ACENAPHTHYLENE	100		74.9	ug/L	74.9	
LCS	Q102168	HLI	ANTHRACENE	100		82.6	ug/L	82.6	
LCS	Q102168	HLI	BENZO(A)PYRENE	100		90.7	ug/L	90.7	
LCS	Q102168	HLI	BENZO(B)FLUORANTHENE (3,4-BENZOFLUOR)	100		96.3	ug/L	96.3	
LCS	Q102168	HLI	BENZO(G,H,I)PERYLENE	100		79.3	ug/L	79.3	
LCS	Q102168	HLI	BENZO(K)FLUORANTHENE	100		91.5	ug/L	91.5	
LCS	Q102168	HLI	BENZYL ALCOHOL	100		77	ug/L	77	
LCS	Q102168	HLI	BENZYL BUTYLPHTHALATE (BUTYLBENZYLPH)	100		99.1	ug/L	99.1	
LCS	Q102168	HLI	BIS(2-CHLOROETHOXY)METHANE	100		85.9	ug/L	85.9	
LCS	Q102168	HLI	BIS(2-CHLOROETHYL)ETHER	100		76.2	ug/L	76.2	
LCS	Q102168	HLI	BIS(2-CHLOROISOPROPYL)ETHER	100		81.5	ug/L	81.5	
LCS	Q102168	HLI	BIS(2-ETHYLHEXYL)PHTHALATE	100		95.6	ug/L	95.6	
LCS	Q102168	HLI	4-BROMODIPHENYL ETHER	100		79.1	ug/L	79.1	
LCS	Q102168	HLI	CARBAZOLE	100		103	ug/L	103	
LCS	Q102168	HLI	4-CHLOROANILINE	100		153	ug/L	153	
LCS	Q102168	HLI	2-CHLORONAPHTHALENE	100		92.6	ug/L	92.6	
LCS	Q102168	HLI	4-CHLOROPHENYL-PHENYLETHER	100		79.9	ug/L	79.9	
LCS	Q102168	HLI	CHRYSENE	100		90.5	ug/L	90.5	
LCS	Q102168	HLI	DIBENZ(A,H)ANTHRACENE	100		80.4	ug/L	80.4	
LCS	Q102168	HLI	DIBENZOFURAN	100		84.4	ug/L	84.4	
LCS	Q102168	HLI	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	100		65.8	ug/L	65.8	
LCS	Q102168	HLI	1,3-DICHLOROBENZENE (M-DICHLOROBENZE	100		64.9	ug/L	64.9	
LCS	Q102168	HLI	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	100		66.5	ug/L	66.5	
LCS	Q102168	HLI	3,3'-DICHLOROBENZIDINE	100		159	ug/L	159.1	
LCS	Q102168	HLI	DIETHYLPHTHALATE	100		88.4	ug/L	88.4	
LCS	Q102168	HLI	DIMETHYLPHTHALATE	100		89.9	ug/L	89.9	
LCS	Q102168	HLI	DI-N-BUTYLPHTHALATE	100		86.6	ug/L	86.6	
LCS	Q102168	HLI	2,4-DINITROTOLUENE	100		96.9	ug/L	96.9	
LCS	Q102168	HLI	2,6-DINITROTOLUENE	100		92.5	ug/L	92.5	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

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LCS	Q102168	HLI	D1-N-OCTYLPHTHALATE	100		115	ug/L	115.9	
LCS	Q102168	HLI	FLUORANTHENE	100		81.2	ug/L	81.2	
LCS	Q102168	HLI	FLUORENE	100		82.7	ug/L	82.7	
LCS	Q102168	HLI	HEXACHLOROBENZENE	100		81.2	ug/L	81.2	
LCS	Q102168	HLI	HEXACHLOROBUTADIENE	100		70.1	ug/L	70.1	
LCS	Q102168	HLI	HEXACHLOROCYCLOPENTADIENE	100		51.4	ug/L	51.4	
LCS	Q102168	HLI	HEXACHLOROETHANE	100		67.4	ug/L	67.4	
LCS	Q102168	HLI	INDENO(1,2,3-CD)PYRENE	100		82.6	ug/L	82.6	
LCS	Q102168	HLI	ISOPHORONE	100		84.8	ug/L	84.8	
LCS	Q102168	HLI	2-METHYLNAPHTHALENE	100		79.7	ug/L	79.7	
LCS	Q102168	HLI	NAPHTHALENE	100		76.1	ug/L	76.1	
LCS	Q102168	HLI	2-NITROANILINE (O-NITROANILINE)	100		99.7	ug/L	99.7	
LCS	Q102168	HLI	3-NITROANILINE (M-NITROANILINE)	100		122	ug/L	122.8	
LCS	Q102168	HLI	4-NITROANILINE (P-NITROANILINE)	100		105	ug/L	105.3	
LCS	Q102168	HLI	NITROBENZENE	100		84.4	ug/L	84.4	
LCS	Q102168	HLI	N-NITRODIPHENYLAMINE	100		73.5	ug/L	73.5	
LCS	Q102168	HLI	N-NITROSO-DI-N-PROPYLAMINE	100		71.6	ug/L	71.6	
LCS	Q102168	HLI	PHENANTHRENE	100		87.1	ug/L	87.1	
LCS	Q102168	HLI	2-PICOLINE	100		31.2	ug/L	31.2	
LCS	Q102168	HLI	PYRENE	100		97.1	ug/L	98	
LCS	Q102168	HLI	PYRIDINE	100		28.2	ug/L	28.2	
LCS	Q102168	HLI	1,2,4,5-TETRACHLOROBENZENE	100		86.1	ug/L	86.1	
LCS	Q102168	HLI	1,2,4-TRICHLOROBENZENE	100		74.4	ug/L	74.4	
LCS	Q102168	HLI	BENZOIC ACID	100		15.1	ug/L	15.1	
LCS	Q102168	HLI	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M)	100		87.5	ug/L	87.5	
LCS	Q102168	HLI	2-CHLOROPHENOL	100		74.1	ug/L	74.1	
LCS	Q102168	HLI	2,4-DICHLOROPHENOL	100		84.5	ug/L	84.5	
LCS	Q102168	HLI	2,4-DIMETHYLPHENOL	100		76.2	ug/L	76.2	
LCS	Q102168	HLI	2,4-DINITROPHENOL	100		71.6	ug/L	71.6	
LCS	Q102168	HLI	2-METHYLPHENOL (O-CRESOL)	100		72.7	ug/L	72.7	
LCS	Q102168	HLI	4-METHYLPHENOL (P-CRESOL)	100		64.6	ug/L	64.6	
LCS	Q102168	HLI	2-NITROPHENOL	100		84.3	ug/L	84.3	
LCS	Q102168	HLI	4-NITROPHENOL	100		50.1	ug/L	50.1	
LCS	Q102168	HLI	PENTACHLOROPHENOL	100		76.1	ug/L	76.1	
LCS	Q102168	HLI	PHENOL	100		43.4	ug/L	43.4	
LCS	Q102168	HLI	2,3,4,6-TETRACHLOROPHENOL	100		82.6	ug/L	82.6	
LCS	Q102168	HLI	2,4,5-TRICHLOROPHENOL	100		85.8	ug/L	85.8	
LCS	Q102168	HLI	2,4,6-TRICHLOROPHENOL	100		83	ug/L	83	

Run: R378844
ANALYTICALAnalyst.: L DOBBINS
Reviewer: A BRADBURNRun Date....: 24-SEP-99
Review Date: 27-SEP-99

Instrument: GC/MS SVOA

CAL01	Q102206		Date and time of analysis	24-SEP-99	12:20:00				
CAL01	Q102206		PYRIDINE	1.0904					7.3
CAL01	Q102206		2-PICOLINE	0.9324					5.6
CAL01	Q102206		PHENOL	1.4854					12.3
CAL01	Q102206		BIS(2-CHLOROETHYL)ETHER	1.2772					16.6
CAL01	Q102206		2-CHLOROPHENOL	1.1264					11.4
CAL01	Q102206		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	1.2467					13.3
CAL01	Q102206		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	1.2676					15.5
CAL01	Q102206		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	1.0953					19.9
CAL01	Q102206		BENZYL ALCOHOL	0.6764					8.6
CAL01	Q102206		2-METHYLPHENOL (O-CRESOL)	0.9455					12.6
CAL01	Q102206		BIS(2-CHLOROISOPROPYL)ETHER	2.6930					8.3
CAL01	Q102206		N-NITROSO-DI-N-PROPYLAMINE	1.0794					7.2
CAL01	Q102206		4-METHYLPHENOL (P-CRESOL)	0.9957					10.1

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Samp	Spike Val	Observed	Units	% Rec	RPD
CAL01	Q102206		HEXACHLOROETHANE	0.5894					11.7
CAL01	Q102206		NITROBENZENE	0.3640					6.6
CAL01	Q102206		ISOPHORONE	0.7267					3.7
CAL01	Q102206		2-NITROPHENOL	0.2020					6
CAL01	Q102206		2,4-DIMETHYLPHENOL	0.3131					7.1
CAL01	Q102206		BIS(2-CHLOROETHOXY)METHANE	0.4787					10.3
CAL01	Q102206		2,4-DICHLOROPHENOL	0.2709					13.6
CAL01	Q102206		BENZOIC ACID	0.2317					16.8
CAL01	Q102206		1,2,4-TRICHLOROBENZENE	0.3063					14.4
CAL01	Q102206		NAPHTHALENE	0.8749					16.2
CAL01	Q102206		4-CHLOROANILINE	0.3600					19
CAL01	Q102206		HEXACHLOROBUTADIENE	0.1844					14.4
CAL01	Q102206		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M)	0.2955					7.6
CAL01	Q102206		2-METHYLNAPHTHALENE	0.5386					16.5
CAL01	Q102206		HEXACHLOROCYCLOPENTADIENE	0.2163					25.2
CAL01	Q102206		1,2,4,5-TETRACHLOROBENZENE	0.4933					16.2
CAL01	Q102206		2,4,6-TRICHLOROPHENOL	0.3697					8.9
CAL01	Q102206		2,4,5-TRICHLOROPHENOL	0.3913					8.4
CAL01	Q102206		2-NITROANILINE (O-NITROANILINE)	0.4252					5.8
CAL01	Q102206		DIMETHYLPHthalate	1.1972					10.8
CAL01	Q102206		2,6-DINITROTOLUENE	0.3314					5.9
CAL01	Q102206		ACENAPHTHYLENE	1.6068					13.2
CAL01	Q102206		3-NITROANILINE (M-NITROANILINE)	0.3400					8.6
CAL01	Q102206		ACENAPHTHENE	0.9553					16
CAL01	Q102206		2,4-DINITROPHENOL	0.2202					8
CAL01	Q102206		4-NITROPHENOL	0.1167					8.3
CAL01	Q102206		2,4-DINITROTOLUENE	0.3912					6.9
CAL01	Q102206		2,3,4,6-TETRACHLOROPHENOL	0.3379					6.3
CAL01	Q102206		DIETHYLPHthalate	1.2665					11.2
CAL01	Q102206		FLUORENE	1.0263					20.6
CAL01	Q102206		4-CHLOROPHENYL-PHENYLETHER	0.5165					19.9
CAL01	Q102206		4-NITROANILINE (P-NITROANILINE)	0.3819					5.3
CAL01	Q102206		N-NITROSODIPHENYLAMINE	0.3978					11.7
CAL01	Q102206		4-BROMODIPHENYL ETHER	0.1543					17.6
CAL01	Q102206		HEXACHLOROBENZENE	0.2202					9
CAL01	Q102206		PENTACHLOROPHENOL	0.1335					2.2
CAL01	Q102206		PHENANTHRENE	0.8470					13.6
CAL01	Q102206		ANTHRACENE	0.8740					12.6
CAL01	Q102206		CARBAZOLE	0.7276					15.2
CAL01	Q102206		DI-N-BUTYLPHthalate	1.2131					11.5
CAL01	Q102206		FLUORANTHENE	0.8863					9
CAL01	Q102206		PYRENE	1.2760					20
CAL01	Q102206		BENZYL BUTYLPHthalate (BUTYLBENZYLPH)	0.7834					11.1
CAL01	Q102206		3,3'-DICHLOROBENZIDINE	0.2768					6.1
CAL01	Q102206		CHRYSENE	0.8825					14
CAL01	Q102206		BIS(2-ETHYLHEXYL)PHthalate	0.8773					20.4
CAL01	Q102206		DI-N-OCTYLPHthalate	2.7259					9.9
CAL01	Q102206		BENZO(B)FLUORANTHENE (3,4-BENZOFUOR	1.3433					2.2
CAL01	Q102206		BENZO(K)FLUORANTHENE	1.3152					3.3
CAL01	Q102206		BENZO(A)PYRENE	1.1457					3
CAL01	Q102206		INDENO(1,2,3-CD)PYRENE	1.0132					11
CAL01	Q102206		DIBENZ(A,H)ANTHRACENE	0.8328					12
CAL01	Q102206		BENZO(G,H,I)PERYLENE	0.8642					9.9
CAL01	Q102206		2-CHLORONAPHTHALENE	0.9642					13.6

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CAL01	Q102206		DIBENZOFURAN	1.3031					17
CAL01	Q102206		2-FLUOROPHENOL	0.9569					6.6
CAL01	Q102206		PHENOL-D5	1.5643					9.6
CAL01	Q102206		NITROBENZENE-D5	0.3703					5.2
CAL01	Q102206		2-FLUOROBIPHENYL	1.0483					17.4
CAL01	Q102206		2,4,6-TRIBROMOPHENOL	0.1128					7.4
CAL01	Q102206		TERPHENYL-D14	1.0115					15.4
SAMPLE	A495440		Date and time of analysis	24-SEP-99	16:05:00				
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		Date and time of analysis	24-SEP-99	16:51:00				
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		Date and time of analysis	24-SEP-99	17:36:00				
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		Date and time of analysis	24-SEP-99	18:21:00				
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
Run: R379301 Analyst.: L DOBBINS Run Date...: 01-OCT-99 Instrument: GC/MS SVOA ANALYTICAL Reviewer: A BRADBURN Review Date: 04-OCT-99									
CCVD	Q102456		Date and time of analysis	01-OCT-99	10:23:00				
CCVD	Q102456		PYRIDINE	1.0229		1.0777			5.4
CCVD	Q102456		2-PICOLINE	1.1088		1.1395			2.8
CCVD	Q102456		PHENOL	1.4082		1.5564			10.5
CCVD	Q102456		BIS(2-CHLOROETHYL)ETHER	1.2237		1.3006			6.3
CCVD	Q102456		2-CHLOROPHENOL	1.1649		1.2498			7.3
CCVD	Q102456		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	1.2403		1.3311			7.3
CCVD	Q102456		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	1.2598		1.3346			5.9
CCVD	Q102456		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	1.1785		1.2398			5.2
CCVD	Q102456		BENZYL ALCOHOL	0.6748		0.7109			5.3
CCVD	Q102456		2-METHYLPHENOL (O-CRESOL)	0.9801		1.0614			8.3
CCVD	Q102456		BIS(2-CHLOROISOPROPYL)ETHER	2.2044		2.2773			3.3
CCVD	Q102456		N-NITROSO-DI-N-PROPYLAMINE	0.9406		0.9934			5.6
CCVD	Q102456		4-METHYLPHENOL (P-CRESOL)	0.8975		0.9748			8.6
CCVD	Q102456		HEXACHLOROETHANE	0.5779		0.6199			7.3
CCVD	Q102456		NITROBENZENE	0.3946		0.4165			5.5
CCVD	Q102456		ISOPHORONE	0.6992		0.7515			7.5
CCVD	Q102456		2-NITROPHENOL	0.2099		0.2246			7
CCVD	Q102456		2,4-DIMETHYLPHENOL	0.3491		0.3733			6.9
CCVD	Q102456		BIS(2-CHLOROETHOXY)METHANE	0.4390		0.4756			8.3
CCVD	Q102456		2,4-DICHLOROPHENOL	0.2917		0.3290			12.8
CCVD	Q102456		BENZOIC ACID	0.2469		0.2824			14.4
CCVD	Q102456		1,2,4-TRICHLOROBENZENE	0.3401		0.3683			8.3
CCVD	Q102456		NAPHTHALENE	0.9082		0.9844			8.4
CCVD	Q102456		4-CHLOROANILINE	0.2583		0.4160			61.1
CCVD	Q102456		TOLUENEDIAMINE	0.0079		0.0087			10.1
CCVD	Q102456		HEXACHLOROBUTADIENE	0.2014		0.2207			9.6
CCVD	Q102456		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-)	0.3088		0.3443			11.5
CCVD	Q102456		2-METHYLNAPHTHALENE	0.5801		0.6387			10.1
CCVD	Q102456		HEXACHLOROCYCLOPENTADIENE	0.3114		0.3434			10.3
CCVD	Q102456		1,2,4,5-TETRACHLOROBENZENE	0.4563		0.4830			5.9
CCVD	Q102456		2,4,6-TRICHLOROPHENOL	0.3765		0.4210			11.8
CCVD	Q102456		2,4,5-TRICHLOROPHENOL	0.3884		0.4241			9.2
CCVD	Q102456		2-CHLORONAPHTHALENE	0.9584		1.0466			9.2
CCVD	Q102456		2-NITROANILINE (O-NITROANILINE)	0.3858		0.4203			8.9
CCVD	Q102456		DIMETHYLPHTHALATE	1.1330		1.2361			9.1
CCVD	Q102456		2,6-DINITROTOLUENE	0.3215		0.3469			7.9

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CCVD	Q102456		3-NITROANILINE (M-NITROANILINE)	0.2739		0.3558			29.9
CCVD	Q102456		ACENAPHTHENE	0.9874		1.0465			6
CCVD	Q102456		2,4-DINITROPHENOL	0.1980		0.1990			.5
CCVD	Q102456		4-NITROPHENOL	0.1605		0.1592			.8
CCVD	Q102456		DIBENZOFURAN	1.3034		1.4760			13.2
CCVD	Q102456		2,4-DINITROTOLUENE	0.4266		0.4813			12.8
CCVD	Q102456		2,3,4,6-TETRACHLOROPHENOL	0.3293		0.3654			11
CCVD	Q102456		DIETHYLPHTHALATE	1.2364		1.2918			4.5
CCVD	Q102456		FLUORENE	0.9895		1.0642			7.5
CCVD	Q102456		4-CHLOROPHENYL-PHENYLETHER	0.5205		0.5702			9.5
CCVD	Q102456		4-NITROANILINE (P-NITROANILINE)	0.3540		0.3981			12.5
CCVD	Q102456		N-NITROSODIPHENYLAMINE	0.4290		0.4670			8.9
CCVD	Q102456		4-BROMODIPHENYL ETHER	0.1982		0.2206			11.3
CCVD	Q102456		HEXACHLOROBENZENE	0.2463		0.2696			9.5
CCVD	Q102456		PENTACHLOROPHENOL	0.1481		0.1519			2.6
CCVD	Q102456		PHENANTHRENE	0.8822		0.9497			7.7
CCVD	Q102456		ANTHRACENE	0.8284		0.9133			10.2
CCVD	Q102456		CARBAZOLE	1.4446		0.7819			45.9
CCVD	Q102456		DI-N-BUTYLPHTHALATE	1.1013		1.1670			6
CCVD	Q102456		FLUORANTHENE	0.9644		1.0269			6.5
CCVD	Q102456		PYRENE	1.2172		1.2958			6.5
CCVD	Q102456		BENZYL BUTYLPHTHALATE (BUTYLBENZYLPH)	0.6719		0.7064			5.1
CCVD	Q102456		3,3'-DICHLOROBENZIDINE	0.2619		0.3746			43
CCVD	Q102456		CHRYSENE	1.0008		1.0919			9.1
CCVD	Q102456		BIS(2-ETHYLHEXYL)PHTHALATE	0.8404		0.8673			3.2
CCVD	Q102456		DI-N-OCTYLPHTHALATE	1.9894		2.0779			4.4
CCVD	Q102456		BENZO(B)FLUORANTHENE (3,4-BENZOFUOR	1.2770		1.4593			14.3
CCVD	Q102456		BENZO(K)FLUORANTHENE	1.2291		1.3650			11.1
CCVD	Q102456		BENZO(A)PYRENE	1.0764		1.2237			13.7
CCVD	Q102456		INDENO(1,2,3-CD)PYRENE	1.1235		1.2404			10.4
CCVD	Q102456		DIBENZ(A,H)ANTHRACENE	0.8726		0.9554			9.5
CCVD	Q102456		BENZO(G,H,I)PERYLENE	0.9215		1.0360			12.4
CCVD	Q102456		2-FLUOROPHENOL	1.0099		1.0503			4
CCVD	Q102456		PHENOL-D5	1.4724		1.5795			7.3
CCVD	Q102456		NITROBENZENE-D5	0.3862		0.4119			6.7
CCVD	Q102456		2-FLUOROBIPHENYL	1.0701		1.1579			8.2
CCVD	Q102456		2,4,6-TRIBROMOPHENOL	0.1344		0.1471			9.4
CCVD	Q102456		TERPHENYL-D14	0.8980		0.9499			5.8
BLA02	Q102398	HLI	Date and time of analysis	01-OCT-99	15:21:00				
BLA02	Q102398	HLI	ACENAPHTHENE			BDL 10	ug/L		
BLA02	Q102398	HLI	ACENAPHTHYLENE			BDL 10	ug/L		
BLA02	Q102398	HLI	ANTHRACENE			BDL 10	ug/L		
BLA02	Q102398	HLI	BENZO(A)PYRENE			BDL 10	ug/L		
BLA02	Q102398	HLI	BENZO(B)FLUORANTHENE (3,4-BENZOFUOR			BDL 10	ug/L		
BLA02	Q102398	HLI	BENZO(G,H,I)PERYLENE			BDL 10	ug/L		
BLA02	Q102398	HLI	BENZO(K)FLUORANTHENE			BDL 10	ug/L		
BLA02	Q102398	HLI	BENZYL ALCOHOL			BDL 10	ug/L		
BLA02	Q102398	HLI	BENZYL BUTYLPHTHALATE (BUTYLBENZYLPH)			BDL 10	ug/L		
BLA02	Q102398	HLI	BIS(2-CHLOROETHOXY)METHANE			BDL 10	ug/L		
BLA02	Q102398	HLI	BIS(2-CHLOROETHYL)ETHER			BDL 10	ug/L		
BLA02	Q102398	HLI	BIS(2-CHLOROISOPROPYL)ETHER			BDL 10	ug/L		
BLA02	Q102398	HLI	BIS(2-ETHYLHEXYL)PHTHALATE			BDL 10	ug/L		
BLA02	Q102398	HLI	4-BROMODIPHENYL ETHER			BDL 10	ug/L		

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA02	Q102398	HLI	CARBAZOLE			BDL 10	ug/L		
BLA02	Q102398	HLI	4-CHLOROANILINE			BDL 10	ug/L		
BLA02	Q102398	HLI	2-CHLORONAPHTHALENE			BDL 10	ug/L		
BLA02	Q102398	HLI	4-CHLOROPHENYL-PHENYLETHER			BDL 10	ug/L		
BLA02	Q102398	HLI	CHRYSENE			BDL 10	ug/L		
BLA02	Q102398	HLI	DIBENZ(A,H)ANTHRACENE			BDL 10	ug/L		
BLA02	Q102398	HLI	DIBENZOFURAN			BDL 10	ug/L		
BLA02	Q102398	HLI	1,2-DICHLOROBENZENE (O-DICHLOROBENZE			BDL 10	ug/L		
BLA02	Q102398	HLI	1,3-DICHLOROBENZENE (M-DICHLOROBENZE			BDL 10	ug/L		
BLA02	Q102398	HLI	1,4-DICHLOROBENZENE (P-DICHLOROBENZE			BDL 10	ug/L		
BLA02	Q102398	HLI	3,3'-DICHLOROBENZIDINE			BDL 20	ug/L		
BLA02	Q102398	HLI	DIETHYLPHTHALATE			BDL 10	ug/L		
BLA02	Q102398	HLI	DIMETHYLPHTHALATE			BDL 10	ug/L		
BLA02	Q102398	HLI	DI-N-BUTYLPHTHALATE			BDL 10	ug/L		
BLA02	Q102398	HLI	2,4-DINITROTOLUENE			BDL 10	ug/L		
BLA02	Q102398	HLI	2,6-DINITROTOLUENE			BDL 10	ug/L		
BLA02	Q102398	HLI	DI-N-OCTYLPHTHALATE			BDL 10	ug/L		
BLA02	Q102398	HLI	FLUORANTHENE			BDL 10	ug/L		
BLA02	Q102398	HLI	FLUORENE			BDL 10	ug/L		
BLA02	Q102398	HLI	HEXACHLOROBENZENE			BDL 10	ug/L		
BLA02	Q102398	HLI	HEXACHLOROBUTADIENE			BDL 10	ug/L		
BLA02	Q102398	HLI	HEXACHLOROCYCLOPENTADIENE			BDL 10	ug/L		
BLA02	Q102398	HLI	HEXACHLOROETHANE			BDL 10	ug/L		
BLA02	Q102398	HLI	INDENO(1,2,3-CD)PYRENE			BDL 10	ug/L		
BLA02	Q102398	HLI	ISOPHORONE			BDL 10	ug/L		
BLA02	Q102398	HLI	2-METHYLNAPHTHALENE			BDL 10	ug/L		
BLA02	Q102398	HLI	NAPHTHALENE			BDL 10	ug/L		
BLA02	Q102398	HLI	2-NITROANILINE (O-NITROANILINE)			BDL 50	ug/L		
BLA02	Q102398	HLI	3-NITROANILINE (M-NITROANILINE)			BDL 50	ug/L		
BLA02	Q102398	HLI	4-NITROANILINE (P-NITROANILINE)			BDL 50	ug/L		
BLA02	Q102398	HLI	NITROBENZENE			BDL 10	ug/L		
BLA02	Q102398	HLI	N-NITROSODIPHENYLAMINE			BDL 10	ug/L		
BLA02	Q102398	HLI	N-NITROSO-DI-N-PROPYLAMINE			BDL 10	ug/L		
BLA02	Q102398	HLI	PHENANTHRENE			BDL 10	ug/L		
BLA02	Q102398	HLI	2-PICOLINE			BDL 50	ug/L		
BLA02	Q102398	HLI	PYRENE			BDL 10	ug/L		
BLA02	Q102398	HLI	PYRIDINE			BDL 50	ug/L		
BLA02	Q102398	HLI	1,2,4,5-TETRACHLOROBENZENE			BDL 10	ug/L		
BLA02	Q102398	HLI	1,2,4-TRICHLOROBENZENE			BDL 10	ug/L		
BLA02	Q102398	HLI	BENZOIC ACID			BDL 50	ug/L		
BLA02	Q102398	HLI	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M			BDL 10	ug/L		
BLA02	Q102398	HLI	2-CHLOROPHENOL			BDL 10	ug/L		
BLA02	Q102398	HLI	2,4-DICHLOROPHENOL			BDL 10	ug/L		
BLA02	Q102398	HLI	2,4-DIMETHYLPHENOL			BDL 10	ug/L		
BLA02	Q102398	HLI	2,4-DINITROPHENOL			BDL 50	ug/L		
BLA02	Q102398	HLI	2-METHYLPHENOL (O-CRESOL)			BDL 10	ug/L		
BLA02	Q102398	HLI	4-METHYLPHENOL (P-CRESOL)			BDL 10	ug/L		
BLA02	Q102398	HLI	2-NITROPHENOL			BDL 10	ug/L		
BLA02	Q102398	HLI	4-NITROPHENOL			BDL 50	ug/L		
BLA02	Q102398	HLI	PENTACHLOROPHENOL			BDL 50	ug/L		
BLA02	Q102398	HLI	PHENOL			BDL 10	ug/L		
BLA02	Q102398	HLI	2,3,4,6-TETRACHLOROPHENOL			BDL 10	ug/L		
BLA02	Q102398	HLI	2,4,5-TRICHLOROPHENOL			BDL 50	ug/L		
BLA02	Q102398	HLI	2,4,6-TRICHLOROPHENOL			BDL 10	ug/L		

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA02	Q102398	HLI	2-FLUOROPHENOL					43	
BLA02	Q102398	HLI	PHENOL-D5					30	
BLA02	Q102398	HLI	NITROBENZENE-D5					81	
BLA02	Q102398	HLI	2-FLUOROBIPHENYL					86	
BLA02	Q102398	HLI	2,4,6-TRIBROMOPHENOL					76	
BLA02	Q102398	HLI	TERPHENYL-D14					85	
LCS	Q102398	HLI	Date and time of analysis	01-OCT-99	16:11:00				
LCS	Q102398	HLI	ACENAPHTHENE	100		99.4	ug/L	99.4	
LCS	Q102398	HLI	ACENAPHTHYLENE	100		85.7	ug/L	85.7	
LCS	Q102398	HLI	ANTHRACENE	100		90.2	ug/L	90.2	
LCS	Q102398	HLI	BENZO(A)PYRENE	100		97.1	ug/L	98	
LCS	Q102398	HLI	BENZO(B)FLUORANTHENE (3,4-BENZOFUOR	100		101	ug/L	101.3	
LCS	Q102398	HLI	BENZO(G,H,I)PERYLENE	100		96.3	ug/L	96.3	
LCS	Q102398	HLI	BENZO(K)FLUORANTHENE	100		103	ug/L	103.5	
LCS	Q102398	HLI	BENZYL ALCOHOL	100		77.1	ug/L	77.1	
LCS	Q102398	HLI	BENZYL BUTYLPHthalate (BUTYLBENZYLPH	100		106	ug/L	106.1	
LCS	Q102398	HLI	BIS(2-CHLOROETHOXY)METHANE	100		87.6	ug/L	87.6	
LCS	Q102398	HLI	BIS(2-CHLOROETHYL)ETHER	100		76.3	ug/L	76.3	
LCS	Q102398	HLI	BIS(2-CHLOROISOPROPYL)ETHER	100		74.8	ug/L	74.8	
LCS	Q102398	HLI	BIS(2-ETHYLHEXYL)PHthalate	100		113	ug/L	113.1	
LCS	Q102398	HLI	4-BROMODIPHENYL ETHER	100		89.4	ug/L	89.4	
LCS	Q102398	HLI	CARBAZOLE	100		110	ug/L	110.4	
LCS	Q102398	HLI	4-CHLOROANILINE	100		135	ug/L	135.8	
LCS	Q102398	HLI	2-CHLORONAPHTHALENE	100		114	ug/L	114.1	
LCS	Q102398	HLI	4-CHLOROPHENYL-PHENYLETHER	100		96.1	ug/L	96.1	
LCS	Q102398	HLI	CHRYSENE	100		99.1	ug/L	99.1	
LCS	Q102398	HLI	DIBENZ(A,H)ANTHRACENE	100		98.2	ug/L	98.2	
LCS	Q102398	HLI	DIBENZOFURAN	100		98.9	ug/L	98.9	
LCS	Q102398	HLI	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	100		70.1	ug/L	70.1	
LCS	Q102398	HLI	1,3-DICHLOROBENZENE (M-DICHLOROBENZE	100		68	ug/L	68	
LCS	Q102398	HLI	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	100		67.9	ug/L	67.9	
LCS	Q102398	HLI	3,3'-DICHLOROBENZIDINE	100		147	ug/L	148	
LCS	Q102398	HLI	DIETHYLPHthalate	100		105	ug/L	105.4	
LCS	Q102398	HLI	DIMETHYLPHthalate	100		99.9	ug/L	99.9	
LCS	Q102398	HLI	DI-N-BUTYLPHthalate	100		98.1	ug/L	98.1	
LCS	Q102398	HLI	2,4-DINITROTOLUENE	100		104	ug/L	104.7	
LCS	Q102398	HLI	2,6-DINITROTOLUENE	100		101	ug/L	101.4	
LCS	Q102398	HLI	DI-N-OCTYLPHthalate	100		114	ug/L	114.9	
LCS	Q102398	HLI	FLUORANTHENE	100		88	ug/L	88	
LCS	Q102398	HLI	FLUORENE	100		99.4	ug/L	99.4	
LCS	Q102398	HLI	HEXACHLOROBENZENE	100		90.5	ug/L	90.5	
LCS	Q102398	HLI	HEXACHLOROBUTADIENE	100		69.4	ug/L	69.4	
LCS	Q102398	HLI	HEXACHLOROCYCLOPENTADIENE	100		43.2	ug/L	43.2	
LCS	Q102398	HLI	HEXACHLOROETHANE	100		68.5	ug/L	68.5	
LCS	Q102398	HLI	INDENO(1,2,3-CD)PYRENE	100		97	ug/L	97	
LCS	Q102398	HLI	ISOPHORONE	100		88.1	ug/L	88.1	
LCS	Q102398	HLI	2-METHYLNAPHTHALENE	100		83.3	ug/L	83.3	
LCS	Q102398	HLI	NAPHTHALENE	100		81.4	ug/L	81.4	
LCS	Q102398	HLI	2-NITROANILINE (O-NITROANILINE)	100		107	ug/L	107.3	
LCS	Q102398	HLI	3-NITROANILINE (M-NITROANILINE)	100		130	ug/L	130.7	
LCS	Q102398	HLI	4-NITROANILINE (P-NITROANILINE)	100		111	ug/L	111.2	
LCS	Q102398	HLI	NITROBENZENE	100		84.3	ug/L	84.3	
LCS	Q102398	HLI	N-NITROSDIPHENYLAMINE	100		170	ug/L	170.1	
LCS	Q102398	HLI	N-NITROSO-DI-N-PROPYLAMINE	100		79.1	ug/L	79.1	

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LCS	Q102398	HLI	2-PICOLINE	100		64.2	ug/L	64.2	
LCS	Q102398	HLI	PYRENE	100		104	ug/L	104.7	
LCS	Q102398	HLI	PYRIDINE	100		54.8	ug/L	54.8	
LCS	Q102398	HLI	1,2,4,5-TETRACHLOROBENZENE	100		90.6	ug/L	90.6	
LCS	Q102398	HLI	1,2,4-TRICHLOROBENZENE	100		76	ug/L	76	
LCS	Q102398	HLI	BENZOIC ACID	100		10.00	ug/L	0	
LCS	Q102398	HLI	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M	100		91.4	ug/L	91.4	
LCS	Q102398	HLI	2-CHLOROPHENOL	100		72.5	ug/L	72.5	
LCS	Q102398	HLI	2,4-DICHLOROPHENOL	100		85.3	ug/L	85.3	
LCS	Q102398	HLI	2,4-DIMETHYLPHENOL	100		68.4	ug/L	68.4	
LCS	Q102398	HLI	2,4-DINITROPHENOL	100		79.7	ug/L	79.7	
LCS	Q102398	HLI	2-METHYLPHENOL (O-CRESOL)	100		71.6	ug/L	71.6	
LCS	Q102398	HLI	4-METHYLPHENOL (P-CRESOL)	100		66	ug/L	66	
LCS	Q102398	HLI	2-NITROPHENOL	100		83.3	ug/L	83.3	
LCS	Q102398	HLI	4-NITROPHENOL	100		38.9	ug/L	38.9	
LCS	Q102398	HLI	PENTACHLOROPHENOL	100		87	ug/L	87	
LCS	Q102398	HLI	PHENOL	100		39.7	ug/L	39.7	
LCS	Q102398	HLI	2,3,4,6-TETRACHLOROPHENOL	100		91.1	ug/L	92	
LCS	Q102398	HLI	2,4,5-TRICHLOROPHENOL	100		95.5	ug/L	95.5	
LCS	Q102398	HLI	2,4,6-TRICHLOROPHENOL	100		90.8	ug/L	90.8	
SAMPLE	A495444		Date and time of analysis	01-OCT-99	17:00:00				
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
SAMPLE	A495445		Date and time of analysis	01-OCT-99	17:50:00				
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						

VOLATILE ORGANICS SW846-8240B

0510.3

Run: R378660
ANALYTICAL

Analyst.: R SHAMP
Reviewer: A BRADBURN

Run Date...: 21-SEP-99
Review Date: 22-SEP-99

Instrument: GC/MS VOA

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCVD	Q102092		Date and time of analysis	21-SEP-99	05:25:00				
CCVD	Q102092		DICHLORODIFLUOROMETHANE	0.2363		0.2692			13.9
CCVD	Q102092		CHLOROMETHANE	0.1906		0.2225			16.7
CCVD	Q102092		VINYL CHLORIDE	0.1969		0.2360			19.9
CCVD	Q102092		BROMOMETHANE	0.1435		0.1852			29.1
CCVD	Q102092		CHLOROETHANE	0.0943		0.1340			42.1
CCVD	Q102092		TRICHLOROFLUOROMETHANE	0.4533		0.5817			28.3
CCVD	Q102092		ACROLEIN	0.0404		0.0056			86.1
CCVD	Q102092		1,1-DICHLOROETHENE	0.1991		0.2236			12.3
CCVD	Q102092		ACETONE (2-PROPANONE)	0.0075		0.0007			90.7
CCVD	Q102092		CARBON DISULFIDE	0.6064		0.7584			25.1
CCVD	Q102092		DICHLOROMETHANE (METHYLENE CHLORIDE)	0.1740		0.1738			.1
CCVD	Q102092		ACRYLONITRILE	0.0744		0.0207			72.2
CCVD	Q102092		1,1-DICHLOROETHANE	0.4713		0.5959			26.4
CCVD	Q102092		VINYL ACETATE	0.0096		0.0097			1
CCVD	Q102092		METHYL ETHYL KETONE	0.0208		0.0242			16.3
CCVD	Q102092		TETRAHYDROFURAN	0.0099		0.0142			43.4
CCVD	Q102092		CHLOROFORM	0.4753		0.5519			16.1
CCVD	Q102092		1,1,1-TRICHLOROETHANE	0.5058		0.6237			23.3
CCVD	Q102092		CARBON TETRACHLORIDE	0.4663		0.5491			17.8
CCVD	Q102092		BENZENE	0.8058		0.8975			11.4
CCVD	Q102092		1,2-DICHLOROETHANE	0.1763		0.2355			33.6

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCVD	Q102092		TRICHLOROETHENE	0.3749		0.3514			6.3
CCVD	Q102092		1,2-DICHLOROPROPANE	0.2835		0.3056			7.8
CCVD	Q102092		CIS-1,3-DICHLOROPROPENE	0.3059		0.3262			6.6
CCVD	Q102092		TOLUENE	0.9408		0.8884			5.6
CCVD	Q102092		TRANS-1,3-DICHLOROPROPENE	0.1983		0.2221			12
CCVD	Q102092		1,1,2-TRICHLOROETHANE	0.1075		0.1015			5.6
CCVD	Q102092		TETRACHLOROETHENE	0.7149		0.6907			3.4
CCVD	Q102092		2-HEXANONE	0.0959		0.0863			10
CCVD	Q102092		DIBROMOCHLOROMETHANE	0.3016		0.3163			4.9
CCVD	Q102092		CHLOROBENZENE	0.8909		0.9180			3
CCVD	Q102092		STYRENE	0.8194		0.8709			6.3
CCVD	Q102092		BROMOFORM	0.1566		0.1291			17.6
CCVD	Q102092		1,1,2,2-TETRACHLOROETHANE	0.4189		0.6107			45.8
CCVD	Q102092		ETHYL BENZENE	0.5183		0.6206			19.7
CCVD	Q102092		DICHLOROETHANE-D4	0.1670		0.2009			20.3
CCVD	Q102092		TOLUENE-D8	0.8856		0.7786			12.1
CCVD	Q102092		4-BROMOFLUOROBENZENE	0.4174		0.3600			13.8
BLA01	Q102092		Date and time of analysis	21-SEP-99	06:09:00				
BLA01	Q102092		DICHLORODIFLUOROMETHANE			BDL 1.0	ug/L		
BLA01	Q102092		CHLOROMETHANE			BDL 1.0	ug/L		
BLA01	Q102092		VINYL CHLORIDE			BDL 1.0	ug/L		
BLA01	Q102092		BROMOMETHANE			BDL 1.0	ug/L		
BLA01	Q102092		CHLOROETHANE			BDL 1.0	ug/L		
BLA01	Q102092		TRICHLOROFLUOROMETHANE			BDL 1.0	ug/L		
BLA01	Q102092		ACROLEIN			BDL 25	ug/L		
BLA01	Q102092		1,1-DICHLOROETHENE			BDL 1.0	ug/L		
BLA01	Q102092		ACETONE (2-PROPANONE)			BDL 10	ug/L		
BLA01	Q102092		CARBON DISULFIDE			BDL 1.0	ug/L		
BLA01	Q102092		DICHLOROMETHANE (METHYLENE CHLORIDE)			BDL 1.0	ug/L		
BLA01	Q102092		ACRYLONITRILE			BDL 5.0	ug/L		
BLA01	Q102092		1,1-DICHLOROETHANE			BDL 1.0	ug/L		
BLA01	Q102092		VINYL ACETATE			BDL 1.0	ug/L		
BLA01	Q102092		METHYL ETHYL KETONE			BDL 5.0	ug/L		
BLA01	Q102092		TETRAHYDROFURAN			BDL 15	ug/L		
BLA01	Q102092		CHLOROFORM			BDL 1.0	ug/L		
BLA01	Q102092		1,1,1-TRICHLOROETHANE			BDL 1.0	ug/L		
BLA01	Q102092		CARBON TETRACHLORIDE			BDL 1.0	ug/L		
BLA01	Q102092		BENZENE			BDL 1.0	ug/L		
BLA01	Q102092		1,2-DICHLOROETHANE			BDL 1.0	ug/L		
BLA01	Q102092		TRICHLOROETHENE			BDL 1.0	ug/L		
BLA01	Q102092		1,2-DICHLOROPROPANE			BDL 1.0	ug/L		
BLA01	Q102092		CIS-1,3-DICHLOROPROPENE			BDL 1.0	ug/L		
BLA01	Q102092		TOLUENE			BDL 1.0	ug/L		
BLA01	Q102092		TRANS-1,3-DICHLOROPROPENE			BDL 1.0	ug/L		
BLA01	Q102092		1,1,2-TRICHLOROETHANE			BDL 1.0	ug/L		
BLA01	Q102092		TETRACHLOROETHENE			BDL 1.0	ug/L		
BLA01	Q102092		2-HEXANONE			BDL 5.0	ug/L		
BLA01	Q102092		DIBROMOCHLOROMETHANE			BDL 1.0	ug/L		
BLA01	Q102092		CHLOROBENZENE			BDL 1.0	ug/L		
BLA01	Q102092		STYRENE			BDL 1.0	ug/L		
BLA01	Q102092		BROMOFORM			BDL 1.0	ug/L		
BLA01	Q102092		1,1,2,2-TETRACHLOROETHANE			BDL 1.0	ug/L		
BLA01	Q102092		ETHYL BENZENE			BDL 1.0	ug/L		
BLA01	Q102092		DICHLOROETHANE-D4					100	

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q102092		TOLUENE-D8					105	
BLA01	Q102092		4-BROMOFLUOROBENZENE					117	
LCS01	Q102092		Date and time of analysis	21-SEP-99	06:53:00				
LCS01	Q102092		1,1,2,2-TETRACHLOROETHANE	10.0		14.1	ug/L	149.8	
LCS01	Q102092		ACROLEIN	50.0		1.20	ug/L	2.4	
LCS01	Q102092		VINYL ACETATE	10.0		17.2	ug/L	172.4	
SAMPLE	A495440		Date and time of analysis	21-SEP-99	09:10:00				
SAMPLE	A495440		See Cert. of Analysis, Rep: 0						
SAMPLE	A495441		Date and time of analysis	21-SEP-99	09:44:00				
SAMPLE	A495441		See Cert. of Analysis, Rep: 0						
SAMPLE	A495442		Date and time of analysis	21-SEP-99	10:18:00				
SAMPLE	A495442		See Cert. of Analysis, Rep: 0						
SAMPLE	A495443		Date and time of analysis	21-SEP-99	10:53:00				
SAMPLE	A495443		See Cert. of Analysis, Rep: 0						
SAMPLE	A495444		Date and time of analysis	21-SEP-99	11:27:00				
SAMPLE	A495444		See Cert. of Analysis, Rep: 0						
SAMPLE	A495445		Date and time of analysis	21-SEP-99	12:01:00				
SAMPLE	A495445		See Cert. of Analysis, Rep: 0						
SPI01	Q102092	A495441	Date and time of analysis	21-SEP-99	12:36:00				
SPI01	Q102092	A495441	BENZENE	0	10.0	11.4	ug/L	113.5	
SPI01	Q102092	A495441	CARBON TETRACHLORIDE	0	10.0	12.5	ug/L	125.3	
SPI01	Q102092	A495441	1,2-DICHLOROETHANE	0	10.0	14.3	ug/L	143.3	
SPI01	Q102092	A495441	1,1-DICHLOROETHENE	0	10	10.1	ug/L	101	
SPI01	Q102092	A495441	1,1,1-TRICHLOROETHANE	0	10.0	13.4	ug/L	133.6	
SPI01	Q102092	A495441	TRICHLOROETHENE	0	10.0	9.60	ug/L	96	
SPI01	Q102092	A495441	VINYL CHLORIDE	0	10.0	12.1	ug/L	129.5	
SPI01	Q102092	A495441	BROMODICHLOROMETHANE	0	10.0	12.3	ug/L	122.7	
SPI01	Q102092	A495441	BROMOFORM	0	10.0	7.78	ug/L	77.8	
SPI01	Q102092	A495441	BROMOMETHANE	0	10.0	14.9	ug/L	148.5	
SPI01	Q102092	A495441	CHLOROBENZENE	0	10.0	10.6	ug/L	105.6	
SPI01	Q102092	A495441	DIBROMOCHLOROMETHANE	0	10.0	10.3	ug/L	103.4	
SPI01	Q102092	A495441	CHLOROETHANE	0	10.0	17.5	ug/L	174.9	
SPI01	Q102092	A495441	CHLOROFORM	0	10.0	12.1	ug/L	129.8	
SPI01	Q102092	A495441	CHLOROMETHANE	0	10.0	12.3	ug/L	123.2	
SPI01	Q102092	A495441	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10.0	10.0	ug/L	100	
SPI01	Q102092	A495441	1,1-DICHLOROETHANE	0	10.0	14.5	ug/L	145.3	
SPI01	Q102092	A495441	1,2-DICHLOROPROPANE	0	10.0	11.2	ug/L	111.9	
SPI01	Q102092	A495441	CIS-1,3-DICHLOROPROPENE	0	10.0	11.4	ug/L	113.9	
SPI01	Q102092	A495441	TRANS-1,3-DICHLOROPROPENE	0	10.0	11.3	ug/L	113.2	
SPI01	Q102092	A495441	ETHYL BENZENE	0	10.0	11.7	ug/L	116.7	
SPI01	Q102092	A495441	STYRENE	0	10.0	9.57	ug/L	95.7	
SPI01	Q102092	A495441	1,1,2-TRICHLOROETHANE	0	10.0	9.91	ug/L	99.1	
SPI01	Q102092	A495441	1,1,2,2-TETRACHLOROETHANE	0	10.0	18.6	ug/L	185.6	
SPI01	Q102092	A495441	TETRACHLOROETHENE	0	10.0	9.90	ug/L	99	
SPI01	Q102092	A495441	TOLUENE	0	10.0	9.91	ug/L	99.1	
SPI01	Q102092	A495441	DICHLORODIFLUOROMETHANE	0	10.0	10.3	ug/L	103.1	
SPI01	Q102092	A495441	TRICHLOROFUOROMETHANE	0	10.0	13.9	ug/L	139.2	
SPI01	Q102092	A495441	ACROLEIN	0	50.0	0.600	ug/L	1.2	
SPI01	Q102092	A495441	ACETONE (2-PROPANONE)	0	50.0	84.5	ug/L	169	
SPI01	Q102092	A495441	ACRYLONITRILE	0	50.0	2.49	ug/L	5	
SPI01	Q102092	A495441	CARBON DISULFIDE	0	10.0	12.2	ug/L	121.8	
SPI01	Q102092	A495441	VINYL ACETATE	0	10.0	122.7	ug/L	227	
SPI01	Q102092	A495441	4-METHYL-2-PENTANONE	0	50.0	53.3	ug/L	106.6	
SPI01	Q102092	A495441	2-HEXANONE	0	50.0	41.3	ug/L	82.6	

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DPS01	Q102092	A495441	Date and time of analysis	21-SEP-99	13:10:00				
DPS01	Q102092	A495441	BENZENE	0	10	11	ug/L	110	3.1
DPS01	Q102092	A495441	CARBON TETRACHLORIDE	0	10.0	12.4	ug/L	124	1
DPS01	Q102092	A495441	1,2-DICHLOROETHANE	0	10.0	12.8	ug/L	127.9	11.4
DPS01	Q102092	A495441	1,1-DICHLOROETHENE	0	10.0	8.69	ug/L	86.9	14.9
DPS01	Q102092	A495441	1,1,1-TRICHLOROETHANE	0	10.0	12.4	ug/L	123.9	7.5
DPS01	Q102092	A495441	TRICHLOROETHENE	0	10.0	11.2	ug/L	112.4	15.7
DPS01	Q102092	A495441	VINYL CHLORIDE	0	10.0	9.87	ug/L	98.7	27
DPS01	Q102092	A495441	BROMODICHLOROMETHANE	0	10.0	11.8	ug/L	117.8	4.1
DPS01	Q102092	A495441	BROMOFORM	0	10.0	10.5	ug/L	105.4	30.1
DPS01	Q102092	A495441	BROMOMETHANE	0	10.0	12.5	ug/L	124.8	17.3
DPS01	Q102092	A495441	CHLOROBENZENE	0	10.0	11.3	ug/L	113	6.8
DPS01	Q102092	A495441	DIBROMOCHLOROMETHANE	0	10.0	11.2	ug/L	111.5	7.5
DPS01	Q102092	A495441	CHLOROETHANE	0	10.0	13.5	ug/L	135.1	25.7
DPS01	Q102092	A495441	CHLOROFORM	0	10.0	12.2	ug/L	122.1	6.1
DPS01	Q102092	A495441	CHLOROMETHANE	0	10.0	9.27	ug/L	92.7	28.3
DPS01	Q102092	A495441	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10.0	8.96	ug/L	89.6	11
DPS01	Q102092	A495441	1,1-DICHLOROETHANE	0	10.0	11.7	ug/L	116.6	21.9
DPS01	Q102092	A495441	1,2-DICHLOROPROPANE	0	10.0	10.6	ug/L	106.3	5.1
DPS01	Q102092	A495441	CIS-1,3-DICHLOROPROPENE	0	10.0	11.3	ug/L	112.5	1.2
DPS01	Q102092	A495441	TRANS-1,3-DICHLOROPROPENE	0	10.0	11.2	ug/L	111.6	1.4
DPS01	Q102092	A495441	ETHYL BENZENE	0	10.0	11.1	ug/L	111	5
DPS01	Q102092	A495441	STYRENE	0	10.0	10.7	ug/L	107.4	11.5
DPS01	Q102092	A495441	1,1,2-TRICHLOROETHANE	0	10.0	11.4	ug/L	113.8	13.8
DPS01	Q102092	A495441	1,1,2,2-TETRACHLOROETHANE	0	10.0	11.1	ug/L	111.3	50.1
DPS01	Q102092	A495441	TETRACHLOROETHENE	0	10.0	11.2	ug/L	111.7	12.1
DPS01	Q102092	A495441	TOLUENE	0	10.0	10.9	ug/L	109.4	9.9
DPS01	Q102092	A495441	DICHLORODIFLUOROMETHANE	0	10.0	8.82	ug/L	88.2	15.6
DPS01	Q102092	A495441	TRICHLORODIFLUOROMETHANE	0	10.0	12.2	ug/L	122.2	13
DPS01	Q102092	A495441	ACROLEIN	0	50.0	0.00	ug/L	0	200
DPS01	Q102092	A495441	ACETONE (2-PROPANONE)	0	50.0	65.7	ug/L	131.4	25
DPS01	Q102092	A495441	ACRYLONITRILE	0	50.0	1.92	ug/L	3.8	27.3
DPS01	Q102092	A495441	CARBON DISULFIDE	0	10.0	9.37	ug/L	93.7	26.1
DPS01	Q102092	A495441	VINYL ACETATE	0	10	1.25	ug/L	250	9.6
DPS01	Q102092	A495441	4-METHYL-2-PENTANONE	0	50.0	49.4	ug/L	98.8	7.6
DPS01	Q102092	A495441	2-HEXANONE	0	50.0	34.6	ug/L	69.2	17.7

Comments

Q102092 Recovery for 1,1,2,2-tetrachloroethane was high. It was BDL in the samples.

QC Sample Comments

! Outside Lab Generated Control Limits
 < Less Than Lower Detection Limit
 BDL Below Detection Limit

Approved by: _____

LA Busch

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**LABORATORY SERVICES
TERMS & CONDITIONS**

1. Agreement- To initiate services, Client must sign the Heritage Laboratory Services Quotation form and submit a written purchase order. Submittal of a purchase order and/or samples constitutes acceptance and acknowledgment by Client to be bound by this Agreement.
2. Fees- Heritage shall provide services at the prices stated in its Quotation. Heritage reserves the right to change prices after providing Client with a 30 day notification.
3. Taxes- Prices do not include taxes. It is the Client's responsibility to provide documentation to Heritage if the Client is exempt from tax liability.
4. Payment- Invoices are payable on receipt. All outstanding balances unpaid after 30 days of Client's receipt of invoices are subject to interest, either 1.5% per month or the amount permissible under applicable law.
5. Samples- Samples delivered to Heritage by others are taken "as is". Heritage makes no guarantee nor representation as to chain-of-custody prior to acceptance by Heritage. Heritage will not be responsible for exceeding holding times if the samples are not promptly delivered. All samples delivered on the weekends or after hours must be scheduled in advance.
6. Sample Retention- Samples and sample derivatives will be kept for 15 days after the report of analysis is made. Sample storage beyond 15 days is available at extra cost.
7. Sample Analysis- Heritage uses analytical methods which conform with the U.S. EPA, State Agency, American Society for Testing & Materials, Association of Official Analytical Chemists, Standard Methods for the Examination of Water and Wastewater or other recognized methodologies. Records of Heritage Laboratory procedures, including the Heritage Quality Assurance Program Plan, may be inspected by Clients.
8. Sample Reports- Heritage shall provide a written report of the results of its services which will include test results, detection limits, dates of analysis, the analyst, and analytical method references. Additional documentation and special reports are available for additional fees, but must be arranged prior to sample delivery.
9. Confidentiality- Heritage shall not disclose results or any other information provided by the Client to any third party, except where required by law. Heritage shall have no obligation to oppose any legal proceeding taken to obtain laboratory test results of confidential information.
10. Additional or Different Tasks- If additional analytical testing is necessary due to sample matrix interferences, multi-phase samples or any factor not disclosed to Heritage prior to its acceptance of the sample, the Client will be notified of the additional cost and will be given the opportunity to agree to the additional work or return of the sample.
11. Cancellation- If the Client cancels its order after the sample has been prepped and analyzed, the full fee in Heritage's quotation will apply. A \$25 cancellation fee will apply if a sample is delivered and accepted at the laboratory.
12. Indemnification- Client agrees to indemnify and hold harmless Heritage from all loss, damage, cost and expenses, including attorney fees from any suit, claim or action against Heritage or which names Heritage as a party because:
 - a. Heritage performed analysis or work for the Client.
 - b. of negligent acts, errors or omissions of the Client; or
 - c. of Client's failure to perform its obligations under this Agreement.

Heritage's liability associated with the performance of the work shall be limited to the reperformance of the work or refund of compensation received from the Client.

TO ENSURE PROPER HANDLING OF S/ LES PLEASE COMPLETE THIS ENTIRE FORM

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